SCHOOL OF CIVIL ENGINEERING

JOINT HIGHWAY RESEARCH PROJECT

FHWA/IN/JHRP-81/2

TRAFFIC SPEED REPORT NO. 114

R. P. Guenthner
G. K. Stafford

PURDUE UNIVERSITY
INDIANA STATE HIGHWAY COMMISSION

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TRAFFIC SPEED REPORT NO. 114

TO: H. L. Michael, Director
Joint Highway Research Project

February 3, 1981

File: 8-3-3

FROM: R. P. Guenthner
Graduate Research Assistant
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 114 on Traffic Speeds is the report of the July-September 1980 quarterly study of automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. R. P. Guenthner, a Graduate Instructor in Research on our staff with assistance from Ms. P. J. Tirschman, drafting assistant on our staff. The data collection was directed by Mr. G. K. Stafford of our staff. Professor H. L. Michael directed all phases of the study.

The overall free flow results show an average speed of 56.6 mph. The results indicate that speeds have changed only slightly from the previous April-June 1980 quarter.

Results over the past year indicate that while general passenger car speeds have decreased, the overall speeds of heavy trucks have shown a slight increase.

The statewide weighted compliance level of vehicles traveling over 55mph was 55.8 percent. This value compared with the 53.9 percent found during the previous quarter.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,

Richard P. Guenthner

Richard P. Guenthner
Graduate Research Assistant

RPG/mag

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Interim Report

TRAFFIC SPEED REPORT NO. 114

by

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and

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Project No.: C-36-10C

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Conducted by
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Purdue University

in Cooperation with the

Indiana State Highway Commission

and the

U.S. Department of Transportation
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
February 3, 1981

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15. Supplementary Notes

Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed Trends for Indiana Highways".

16. Abstract

This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the July-September 1980 quarter.

This report includes the analysis of the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results of this study indicate a statewide average of 55.8 percent of the vehicles traveling above the 55 mph speed limit. This report also includes analysis of free flow speeds. Results here show that the overall average speeds have changed only slightly from the previous April-June 1980 quarter. Analysis of the free flow speeds recorded during this past year indicate that while the speeds of passenger cars have dropped, the speeds of heavy trucks have increased slightly.

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Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration under a planning study title "Rural Paved Roads for Indiana Highways".

16. Abstract

This report is another in the continuing study of speeds of vehicles on Indiana Highways. Observations of each lineback were taken on interstate, four-lane and two-lane highways throughout the state during the July-September 1980 quarter.

This report includes the analysis of the interstate speed monitoring procedures which are required as a result of the surface transportation act of 1978. Results of this study indicate a statewide average of 2.4 percent of the vehicles traveling above the 55 mph speed limit. This report also includes analysis of free flow speeds - heavily used roads, rate the overall average speeds have changed only slightly from the previous quarter-last quarter. Analysis of the free flow speeds monitored on the Indianapolis indicate that with the change of pavement and the drop-off, the speed of heavy trucks have increased slightly.

17. Key Words Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161	
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TRAFFIC SPEED REPORT NO. 114

Included here is an analysis of spot speed observations made during July - September 1980 on Indiana highways. All observations were made of vehicles on level, tangent sections of rural and urban highways under favorable conditions. All but three observations were made during daylight. The three night stations were randomly selected, one from each of the rural highway classifications. Observations of free flowing vehicles were made at all speed monitoring locations as has been done in the past. Additional data based on every nth vehicle were collected at specified locations to enable computation of those factors required by the interim speed monitoring procedures. This data collection procedure will be referred to as the "all vehicles" technique.

The speed monitoring stations for each highway classification are divided into three groups. The first group of seven (7) is identified as "primary control stations" and includes the same locations on selected Federal and State highways as used in each quarterly study. These stations are divided into four categories, including two rural interstate locations, two rural four-lane locations, two rural locations, and one urban interstate location.

The second group of seven (7) stations is identified as "secondary control stations". These stations are used only in the July-September quarter of each year and are divided exactly as the primary stations are.

The third group was those fourteen stations selected at random for this quarterly study. Four rural interstate sections were randomly selected from the 37 sections across the state. Likewise four rural four-lane sections and two urban interstate sections were randomly selected from 33 and 8 sections respectively across the state. Four rural two-lane locations were selected from four randomly selected counties across the state. The exact location of each speed station was selected at a location which was level, tangent, away from any construction, and free from intersections or interchanges. No random station was repeated during the year ending September 30, 1980

A total of twenty-eight (28) speed monitoring stations were used for the study reported herein. The speed limit at all stations is 55 miles per hour. The site locations follow and are also shown in Figure 1.

RURAL INTERSTATE HIGHWAYS

*	RI-6	I-65	7.5 Miles North of State Road 160
+*	RI-21	I-69	1.6 Miles South of State Road 18
**	RI-12	I-74	0.1 Miles West of 109 Mile Marker
**	RI-34	I-65	2 Miles South of State Road 39
	RI-2	I-64	4.9 Miles East of State Road 57
	RI-5	I-64	8.55 Miles West of State Road 150
+*	RI-17	I-70	1.05 Miles East of State Road 9
	RI-29	I-80&I-90	7.15 Miles West of U.S. 421

4-LANE HIGHWAYS

+*	4L-17	US52	150 Feet East of County Road 475 West
*	4L-32	US30	2.9 Miles West of Wanatah City Limit Sign
**	4L-20	US41	1.1 Miles North of State Road 2
**	4L-21	US31	1.1 Miles South of State Road 38
	4L-1	US41	1.2 Miles North of State Road 168
	4L-6	US40	1.75 Miles West of Brazil City Limits
+	4L-22	US31	1.65 Miles South of State Road 26
	4L-26	SR9	1.4 Miles North of State Road 124

2-LANE HIGHWAYS

*	2L-18	US35	2.5 Miles East of I-69
+*	2L-54	US231	1.1 Miles South of State Road 234
**	2L-79	SR25	0.7 Miles South of Americus
**	2L-91	SR43	2 Miles South of Chalmers
	2L-5	SR3	1.4 Miles North of Blackford-Delaware County Line
+	2L-8	SR25	10.95 Miles North of Delphi City Limits
	2L-72	US31	0.85 Miles North of Scottsburg City Limits
	2L-88	SR60	1.60 Miles West of State Road 56

URBAN INTERSTATE HIGHWAYS

+*	UI-6	I-65	Just East of White River
**	UI-1	I-80	First Bridge East of Burr Street Interchange
+	UI-3	I-69	2.1 Miles North of State Road 14
	UI-8	I-265	1.35 Miles North of I-64

* PRIMARY CONTROL STATIONS
** SECONDARY CONTROL STATIONS
\+ STATIONS AT WHICH THE "ALL VEHICLES" TECHNIQUE WAS USED AS WELL AS THE FREE FLOW METHOD.

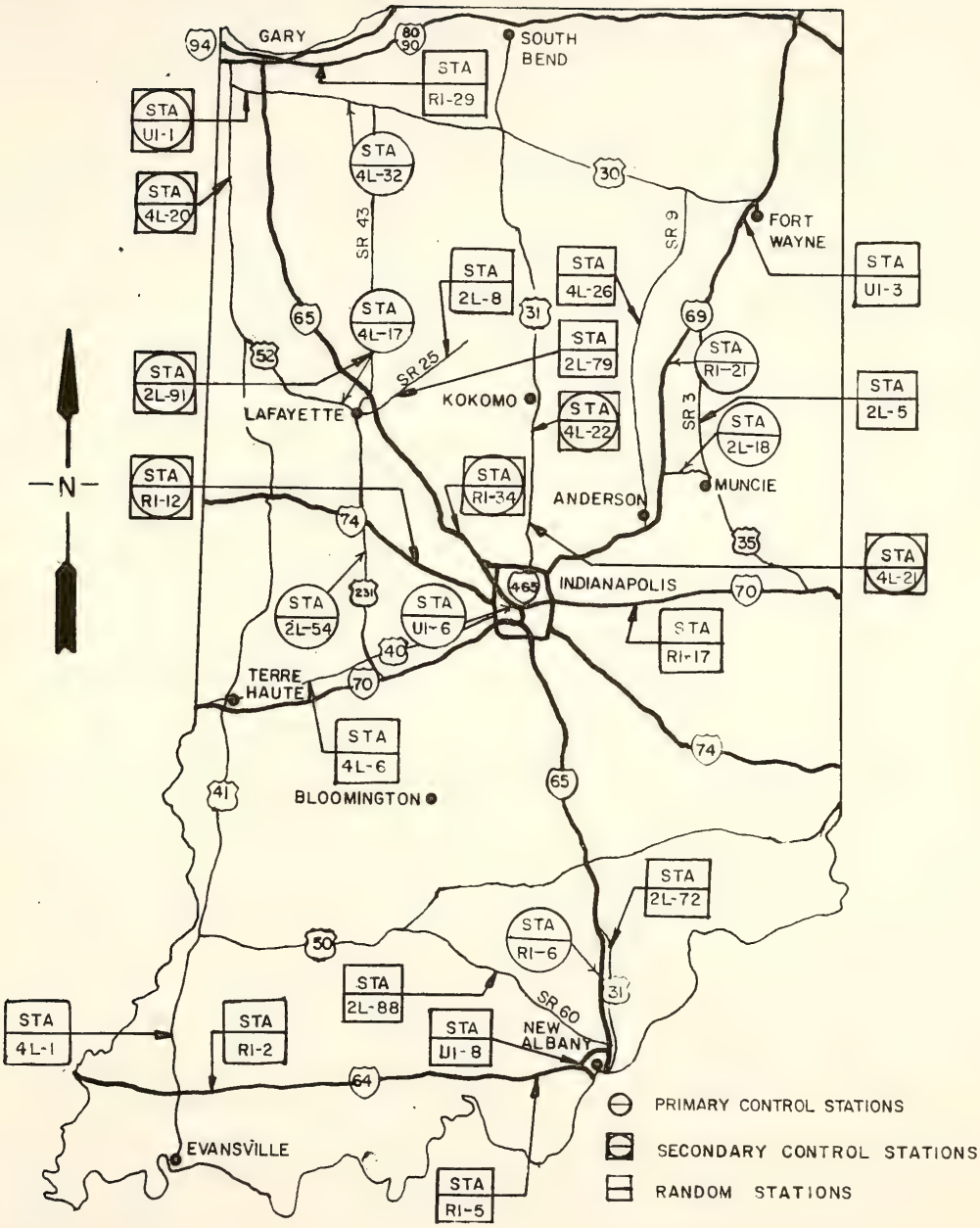

FIGURE 1 LOCATIONS OF SPEED-STUDY STATIONS

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and light (less than 5000 lbs. gross weight) or heavy (equal to or more than 5000 lbs. gross weight) trucks. Analysis was performed for each vehicle classification and for combined passenger cars or trucks.

Sample Size

A minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks.

At the selected stations, an additional 200 vehicles in each direction were sampled using the "all vehicles" technique. These stations included one randomly selected control station and one randomly selected random station in each of the four highway categories. For this technique, only speed data was recorded of each nth vehicle in the traffic stream. The traffic stream is all vehicles in one direction of movement if volume permits or by lane if high volumes require. If by lane, each lane was sampled for 15 minute periods and repeated until the sample required was obtained.

The value of n was 2 in all cases. If the nth vehicle speed could not be obtained, it was not recorded and the next nth vehicle was taken.

At stations where both sampling techniques were used, the two techniques were used interchangeably in 30 minute intervals until complete.

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access dirveway to the road. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least 15 minutes. This problem primarily occurs on interstate roads.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than 10°. No corrections of speed were necessary at these small angles. The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

Results of Analysis

The data collected were analyzed and are summarized in the Appendix. Tables A1 through A28 include the data for the free flow data on each individual station. Tables A29 through A32 summarize the free flow data by highway classification. Table A33 is the summary for all highways. Tables A34 through A46 summarize the data taken using the "all vehicles" technique. Tables A47 through A82 present the same information in the FHWA format.

The results of the free flow data expressed by highway classification and vehicle type are as follows:

Table 1: Average Speeds mph

	Interstate Urban	Interstate Rural	Other Four Lane Rural	Two Lane Rural	All
Passenger Cars:					
Indiana	57.6	58.4	56.3	54.8	56.3
Non-Indiana	57.8	59.4	57.5	58.1	58.7
All Passenger Cars	57.6	58.9	56.4	55.1	56.8
85 Percentile (all)	61.3	62.6	60.1	60.2	61.3
Trucks:					
Less than 5000 lbs.	56.8	57.6	55.2	53.9	55.7
5000 lbs. or more	56.3	59.1	57.6	54.5	57.1
All Vehicles:					
Average	57.2	58.8	56.1	54.8	56.6
85 Percentile	60.9	62.6	60.5	59.9	61.2

Table 2: Percent of Vehicles Exceeding 55 mph

	Interstate Urban	Interstate Rural	Four Lane	Two Lane	All
Passenger Cars:					
Indiana	70.3	75.4	58.7	44.7	58.2
Non-Indiana	70.2	83.4	69.5	70.0	77.5
All Passenger Cars	70.3	79.2	60.3	46.6	62.5
Trucks:					
Less than 5000 lbs.	60.8	68.3	50.7	39.2	53.5
5000 lbs. or more	58.3	79.9	60.8	45.2	63.1
All Vehicles:	65.9	77.9	58.6	45.3	61.2

Table 3: Percent of Vehicles Exceeding 60 mph

	Interstate Urban	Interstate Rural	Other Four Lane Rural	Two Lane Rural	All
Passenger Cars:					
Indiana	22.0	29.6	16.8	13.8	18.7
Non-Indiana	26.7	37.2	22.5	42.8	33.5
All Passenger Cars	23.0	33.2	17.6	16.0	21.9
Trucks:					
Less than 5000 lbs.	21.2	26.0	14.1	10.4	17.2
5000 lbs. or more	16.6	39.1	24.8	13.3	25.5
All Vehicles:	21.1	33.7	17.7	14.7	21.8

Table 4: Percent of Vehicles Exceeding 65 mph

	Interstate Urban	Interstate Rural	Other Four Lane Rural	Two Lane Rural	All
Passenger Cars:					
Indiana	3.1	5.7	2.8	3.9	3.7
Non-Indiana	8.0	9.3	4.1	11.7	7.6
All Passenger Cars	4.1	6.8	3.0	4.4	4.6
Trucks:					
Less than 5000 lbs.	4.5	4.1	3.4	2.2	3.4
5000 lbs. or more	2.1	7.1	6.0	2.7	4.9
All Vehicles:	3.7	6.5	2.8	3.8	4.2

Table 5: Comparison of the Overall Speed Results

	July-Sept 1980	April-June 1980	Jan-March 1980	Oct-Dec 1979
Average				
All Passenger Cars	56.8	56.8	57.2	57.5
Heavy Trucks	57.1	57.1	55.7	56.8
All Trucks	56.4	56.5	56.3	56.7
85 Percentile				
All Passenger Cars	61.3	61.0	61.4	62.0
Heavy Trucks	61.7	61.7	61.6	61.5
All Trucks	61.2	61.3	61.3	61.5
15 Percentile				
Heavy Trucks	51.1	51.6	50.8	51.0

Table 6: Average Speeds on Interstate Highways (URBAN)

	July-Sept 1980	April-June 1980	Jan-March 1980	Oct-Dec 1979
Passenger Cars:				
Indiana	57.6	57.9	57.9	58.2
Non-Indiana	57.8	58.5	58.6	59.0
All Passenger Cars	57.6	58.1	58.0	58.3
85 Percentile (all)	61.3	61.9	61.7	61.9
Trucks:				
Less than 5000 lbs.	56.8	57.6	57.3	57.4
5000 lbs. or more	56.3	57.9	56.8	56.1

Table 7: Average Speeds on Interstate Highways (RURAL)

	July-Sept 1980	April-June 1980	Jan-March 1980	Oct-Dec 1979
Passenger Cars:				
Indiana	58.4	58.3	58.4	59.1
Non-Indiana	59.4	59.0	58.9	59.4
All Passenger Cars	58.9	58.6	58.6	59.2
85 Percentile (all)	62.6	62.1	62.1	63.5
Trucks:				
Less than 5000 lbs.	57.6	57.4	57.6	57.8
5000 lbs. or more	59.1	59.0	58.5	58.7

Table 8: Average Speed on Other Four-Lane Highways

	July-Sept 1980	April-June 1980	Jan-March 1980	Oct-Dec 1979
Passenger Cars:				
Indiana	56.3	55.9	55.8	56.7
Non-Indiana	57.5	57.4	58.4	57.6
All Passenger Cars	56.4	56.1	56.3	56.8
85 Percentile (all)	60.6	60.4	60.3	61.2
Trucks:				
Less than 5000 lbs.	55.2	54.9	55.0	55.8
5000 lbs. or more	57.6	56.3	55.7	56.1

Table 9: Average Speeds on Two-Lane Highways

	July-Sept 1980	April-June 1980	Jan-March 1980	Oct-Dec 1979
Passenger Cars:				
Indiana	54.8	55.0	55.9	56.4
Non-Indiana	58.1	55.5	55.5	56.9
All Passenger Cars	55.1	55.0	55.9	56.5
85 Percentile (all)	60.2	59.7	61.0	61.0
Trucks:				
Less than 5000 lbs.	53.9	54.2	54.6	56.1
5000 lbs. or more	54.5	55.5	54.4	54.4

Analysis of Data from "All Traffic" Collection Technique

Conversion factors for allowing free-flow data to represent all traffic were obtained as prescribed in the FHWA document "Interim Speed Monitoring Procedures." These conversion factors were found by dividing a given statistic for all vehicles by the same statistic for free-flow. This was done by highway classification for percent vehicles exceeding 55 mph, average speed, median speed, 85 percentile speed, percent exceeding 50 mph, and percent exceeding 65 mph. These factors are shown in Table 10.

The computation for the weighted statewide compliance level (percent vehicles exceeding 55 mph) is shown at the bottom of Table 10. Computation of statewide averages for the other statistics was done using the same technique and weighting factors. These averages are also included in Table 10.

Table 11 shows the trend during the past four years of the statewide weighted average speed and percent vehicles exceeding 55 mph. This table shows that the overall speeds during July-September 1980 are very close to those values recorded during the previous April-June 1980 quarter.

Conclusions

The overall results indicate that speeds during the past two quarters have changed very little. The results shown in Table 5 indicate that while the average speeds for passenger cars have slightly decreased during this past year, the average speeds for heavy trucks have increased slightly. The greatest change in speeds occurred between the second quarter (January-March 1980) and third quarter (April-June 1980) of this speed year.

Further examination of the data indicates that the reduced speeds of passenger cars occurred on rural two land highways. The increased truck speeds occurred primarily on rural interstate and other four-lane rural highways.

The value of 55.8 percent for the statewide compliance level is well below the maximum of 60 percent allowed by Federal regulations for the year ending September 30, 1980, to receive full highway funding.

Table 10

SPEED SUMMARY REPORT

Send to Office of Highway Planning HHP-44
QUARTERLY REPORT- CALENDAR QUARTER ENDING September 30, 1980

STATE Indiana (3 4 5 6 7) (State Code, Quarter, Year)

SYSTEM	CARD NO. (1-2)	VMT WEIGHTING FACTOR (8-11)	MILES (12-17)	No. of SESSIONS (18-20)	No. of VEHICLES OBSERVED (21-26)	DATA TYPE	PERCENT EXCEEDING 55 MPH (27-30)	SPEED AVE. (31-34)	SPEED MEDIAN (35-38)	SPEED 85th PER-CENTILE (39-42)	PERCENT EXCEEDING 60 MPH (43-46)	PERCENT EXCEEDING 65 MPH (47-50)
INTERSTATE URBAN	12	1.65	218.	4	1723	Free Flow	6.59	57.2	56.8	60.9	21.1	3.7
	13					All Vehicle Factor	.980	1000	.995	.995	.901	.865
	14					All Vehicles	64.6	57.2	56.5	60.6	19.0	3.2
INTERSTATE RURAL	22	2.51	849.	8	3411	Free Flow	7.79	58.8	58.2	62.6	33.7	6.5
	23					All Vehicle Factor	.947	.997	.991	1.002	.867	1.185
	24					All Vehicles	7.38	586	577	627	292	77
MULTI-LANE DIVIDED	32	1.70	657.	8	3504	Free Flow	6.05	56.1	55.7	60.5	17.7	2.8
	33					All Vehicle Factor	.947	1.013	1.000	.995	.915	.500
	34					All Vehicles	5.73	56.8	55.7	60.2	16.2	1.4
MULTI-LANE DIVIDED	42					Free Flow						
	43					All Vehicle Factor						
	44					All Vehicles						
TWO LANE RURAL	52	4.14	803.0	8	3507	Free Flow	4.53	54.8	54.4	59.9	1.47	3.8
	53					All Vehicle Factor	.871	.955	.982	.987	.789	.507
	54					All Vehicles	3.95	52.3	53.4	59.1	11.6	1.9
STATEWIDE TOTALS	64	1.000	9754.	2.8	12145	All Vehicles	5.58	55.5	55.4	60.4	1.80	3.5

PERCENT OF TOTAL STATEWIDE VMT ON FACILITIES WITH 55 MPH SPEED LIMITS. (51 52 53 54)

Table 11: Statewide Weighted Averages from Past Reports

Report No.	Date	Statewide Weighted Percent Vehicles Exceeding 55 mph	Statewide Weighted Average Speed
114	July-September 1980	55.8	55.5
113	April-June 1980	53.9	55.8
112	January-March 1980	61.0	56.6
111	October-December 1979	59.0	56.4
110	July-September 1979	53.5	55.8
109	April-June 1979	62.3	56.9
108	January-March 1979	66.5	57.7
107	October-December 1978	68.9	57.9
106	July-September 1978	61.5	56.8
105	April-June 1978	66.0	57.6
104	January-March 1978	67.9	58.0
103	October-December 1977	69.9	58.3
102	July-September 1977	61.9	56.9
101	April-June 1977	65.8	57.6
100	January-March 1977	60.2	56.8
99	October-December 1976	59.1	56.7
98	July-September 1976	63.7	57.2
97	April-June 1976	57.1	56.2

APPENDIX

TABLE A-1 SPEED DATA FREE FLOW

STATION RI 6 HIGHWAY I-65 LOCATION 7.5 MILES NORTH OF STATE ROAD 160

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER PARTLY CLOUDY

THIS OBSERVATION
DATE 8-18-80
TIME 1:05-1:50 PM NB
10:05-12:45 PM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 6-11-80
TIME 10:50 AM-12:05 PM NB
8:30-9:50 AM SB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	237	281	142	127	95	154	189	145	59	62	130	83
AVE. SPEED (MPH)	58.70	59.22	58.32	58.23	59.30	60.03	58.30	58.17	57.20	57.23	58.80	58.88
STANDARD DEVIATION	4.405	4.195	4.362	4.133	4.425	4.082	3.976	4.266	4.236	4.441	3.764	4.013
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	.4	0	.8	0	0	0	.7	0	1.6	0	0
49 MPH	2.1	1.1	3.5	1.6	0	.6	2.6	2.8	3.4	4.8	2.3	1.2
54 MPH	12.2	10.3	1[illegible].4	13.4	10.5	7.8	15.9	16.6	25.4	22.6	11.5	12.[illegible]
59 MPH	65.0	54.4	7[illegible].4	63.0	56.8	47.4	57.7	62.1	66.1	67.7	53.8	57.8
64 MPH	92.4	91.8	9[illegible].4	95.3	89.5	89.0	95.2	93.8	96.6	96.8	94.6	91.6
69 MPH	97.5	98.9	97.9	99.2	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0
74 MPH	99.6	100.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	10[illegible].0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	10[illegible].0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	10[illegible].0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.[illegible]
DIRECTION NB												
NUMBER OF VEHICLES	114	140	53	65	61	75	97	74	28	25	69	49
AVERAGE SPEED	58.20	59.21	56.70	57.97	59.50	60.28	58.40	58.61	56.70	57.32	59.10	59.27
DIRECTION SB												
NUMBER OF VEHICLES	123	141	89	62	34	79	92	71	31	37	61	34
AVERAGE SPEED	59.10	59.23	59.2[illegible]	58.50	58.90	59.80	58.30	57.72	57.70	57.16	58.50	58.32

TABLE A-2 SPEED DATA FREE FLOW

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 MILES SOUTH OF STATE ROAD 18

NO OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY

THIS OBSERVATION
DATE 9-3-80; 9-2-80
TIME 10:30-11:50 AM 9-3-80 NB
11:05 AM-12:20 PM 9-2-80 SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 6-4-80
TIME 10:45-11:45 PM NB
12:01-12:55 PM SB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	268	271	57	159	111	112	157	151	47	54	110	97
AVE SPEED (MPH)	58.50	59.33	58.10	59.22	58.90	59.48	59.60	58.62	58.40	58.39	60.10	58.72
STANDARD DEVIATION	4.374	5.052	4.113	5.075	4.436	5.037	4.687	4.421	5.311	5.571	4.326	3.656
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	.4	.4	.6	.6	0	0	0	0			0	0
49 MPH	2.6	1.5	3.8	1.9	.9	.9	1.3	2.0	2.1	5.6	.9	0
54 MPH	14.9	14.4	1[illegible]	15.7	14.4	12.5	14.[illegible]	17.2	23.4	25.9	10.0	12.4
59 MPH	63.1	53.5	66.2	53.5	58.6	53.6	55.4	55.6	66.0	51.9	50.9	57.7
64 MPH	92.9	88.9	94.9	88.7	90.1	89.3	83.4	93.4	85.1	88.9	82.7	95.9
69 MPH	97.8	98.2	9[illegible].7	98.1	96.4	98.2	98.1	99.3	100.0	98.1	97.3	100.0
74 MPH	99.6	98.9	9[illegible].4	99.4	100.0	98.2	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	1[illegible]	98.9	10[illegible]	99.4	100.0	98.2	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	99.3	100.0	99.4	100.0	99.1	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	134	137	81	83	53	54	77	73	27	28	50	45
AVERAGE SPEED	59.00	60.51	58.60	60.60	59.50	60.37	60.1[illegible]	59.58	59.30	59.61	60.50	59.56
DIRECTION SB												
NUMBER OF VEHICLES	134	134	76	76	58	58	8[illegible]	78	20	26	60	52
AVERAGE SPEED	58.00	58.12	57.60	57.71	58.40	58.66	59.10	57.69	57.20	57.[illegible]8	59.70	58.00

TABLE A-3 SPEED DATA FREE FLOW

STATION RI 12 HIGHWAY I-74 LOCATION 0.1 MILES WEST OF 109 MILE MARKER

NO OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER OVERCAST

THIS OBSERVATION
DATE 7-31-80
TIME 10:40-11:20 AM EB
11:25 AM-12:05 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-29-79
TIME 9:30-10:51 PM EB
8:00-9:30 PM WB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	276	263	176	195	0	68	167	167	51	76	116	91
AVE SPEED (MPH)	57.70	58.32	57.70	58.02	0	59.21	59.10	58.47	58.30	57.89	59.40	58.95
STANDARD DEVIATION	4.391	4.072	4.391	4.065	0	3.991	4.519	4.700	4.198	4.760	4.634	4.622
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	.6	0	0	0	.9	0
44 MPH	.4	.4	.4	.5	0	0	.6	1.8	0	2.6	.9	1.1
49 MPH	2.9	.8	2.9	1.0	0	0	2.4	4.8	2.0	6.6	2.6	3.3
54 MPH	22.5	16.0	22.5	19.0	0	7.4	12.6	15.6	13.7	17.1	12.1	14.3
59 MPH	67.0	61.6	67.0	63.1	0	57.4	51.5	59.9	58.8	64.5	48.3	56.0
64 MPH	95.3	94.7	95.3	95.4	0	92.6	88.6	93.4	94.1	97.4	86.2	90.1
69 MPH	98.6	98.5	98.6	99.0	0	97.1	98.8	99.4	98.0	98.7	99.1	100.0
74 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	122	129	122	94	0	35	104	85	23	43	81	42
AVERAGE SPEED	57.60	58.67	57.60	58.49	0	59.17	59.00	59.15	58.30	58.49	59.20	59.83
DIRECTION WB												
NUMBER OF VEHICLES	154	134	154	101	0	33	63	82	28	33	35	49
AVERAGE SPEED	57.80	57.99	57.80	57.57	0	59.24	59.10	57.76	58.40	57.12	59.70	58.18

TABLE A-4 SPEED DATA FREE FLOW

STATION RI-34 HIGHWAY I-65 LOCATION 2 MILES SOUTH OF STATE ROAD 39

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER CLEAR (NIGHT READING)

THIS OBSERVATION
DATE 9-10-80
TIME 8:50-9:35 PM NB
7:40-8:40 PM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 9-7-79
TIME 1:01-2:36 PM NB
9:44 AM-12:04 PM SB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	264	267	146	267	118	0	165	153	72	39	93	114
AVE. SPEED (MPH)	58.60	58.31	58.70	58.31	58.50	0	58.60	57.86	57.40	56.56	59.50	58.31
STANDARD DEVIATION	4.467	4.800	4.450	4.820	4.504	0	4.601	4.227	4.692	4.593	4.330	4.020
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	.4	.7	0	.7	.8	0	.6	.7	1.4	2.6	0	0
49 MPH	1.9	4.5	1.4	4.5	2.5	0	2.4	3.3	4.2	5.1	1.1	2.6
54 MPH	14.4	19.5	10.1	19.5	11.0	0	18.2	17.0	25.0	28.2	12.9	13.2
59 MPH	66.3	62.2	6[illegible].4	62.2	66.1	0	56.4	64.7	70.8	76.9	45.2	60.5
64 MPH	91.3	91.0	89.7	91.0	93.2	0	91.3	96.7	94.4	97.4	87.1	96.5
69 MPH	98.5	98.9	9[illegible].6	98.9	98.3	0	100.0	100.0	100.0	100.0	100.0	100.0
74 MPH	1[illegible]	99.6	100.[illegible]	99.6	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	131	128	69	128	62	0	75	82	37	19	38	63
AVERAGE SPEED	58.30	57.55	58.20	57.55	58.40	0	57.90	58.30	58.00	56.00	57.80	59.00
DIRECTION SB												
NUMBER OF VEHICLES	133	139	77	139	56	0	90	71	35	20	55	51
AVERAGE SPEED	58.90	59.02	59.20	59.02	58.60	0	59.20	57.35	56.70	57.10	60.70	57.45

TABLE A-5 SPEED DATA FREE FLOW

STATION RI 22 HIGHWAY I-64 LOCATION 4.9 MILES EAST OF STATE ROAD 57

NO OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-13-80
TIME 8:20 - 9:28 AM EB
9:40 - 10:45 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	264	0	137	0	127	0	162	0	54	0	108
AVE. SPEED (MPH)	0	59.25	0	58.74	0	59.80	0	57.80	0	57.63	0	57.89
STANDARD DEVIATION		4.575		4.421	0	4.711		4.431	0	4.511	0	4.410
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0			0	0		.6	0	0	0	.9
49 MPH	0	1.9	0	2.2	0	1.6	0	4.3	0	1.9	0	5.6
54 MPH	0	11.4	0	13.1	0	9.4	0	22.2	0	25.9	0	20.4
59 MPH	0	54.5	0	61.3	0	47.2	0	66.0	0	66.5	0	64.8
64 MPH	0	89.8	0	92.0	0	87.4	0	92.0	0	92.6	0	91.7
69 MPH	0	97.7		97.8		97.6		100.0	0	100.0	0	100.0
74 MPH	0	99.2	0	100.0	0	98.4	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	134	0	73	0	61	0	79	0	28	0	51
AVERAGE SPEED		58.47		58.37	0	58.59	0	57.90	0	57.36	0	58.20
DIRECTION WB												
NUMBER OF VEHICLES	0	130	0	64	0	66	0	83	0	26	0	57
AVERAGE SPEED	0	60.05	0	59.16	0	60.92		57.71	0	57.92	0	57.61

TABLE A-6 SPEED DATA FREE FLOW

STATION RI-5 HIGHWAY I-64 LOCATION 9.55 MILES WEST OF STATE ROAD 150

NO. OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER SUNNY

THIS OBSERVATION
DATE 8-20-80
TIME 11:20 AM - 12:10 PM EB
9:12 - 10:57 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.____)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	275	0	111	0	164	0	154	0	59	0	95
AVE. SPEED (MPH)	0	58.79	0	57.89	0	59.40	0	58.58	0	57.73	0	59.11
STANDARD DEVIATION	0	4.660	0	4.789	0	4.483	0	5.415	0	5.149	0	5.534
4 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.4	0	0	0	.6	0	1.9	0	1.7	0	2.1
OF 49 MPH	0	1.8	0	3.6	0	.6	0	3.9	0	3.4	0	4.2
VEHICLES 54 MPH	0	16.7	0	24.3	0	11.6	0	19.5	0	22.0	0	17.9
TRAVELING 59 MPH	0	59.3	0	62.2	0	57.3	0	59.7	0	72.9	0	51.6
AT OR 64 MPH	0	89.5	0	91.0	0	88.4	0	85.7	0	91.5	0	82.1
LESS THAN 69 MPH	0	98.5	0	99.1	0	98.2	0	98.7	0	100.0	0	97.9
74 MPH	0	99.6	0	100.0	0	99.4	0	100.0	0	100.0	0	100.0
79 MPH	0	99.6	0	100.0	0	99.4	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES		130		56	0	74	0	81	0	35	0	46
AVERAGE SPEED	0	59.43	0	58.48	0	60.15	0	59.28	0	58.09	0	60.20
DIRECTION WB												
NUMBER OF VEHICLES	0	145	0	55	0	90	0	73	0	24	0	49
AVERAGE SPEED	0	58.22	0	57.29	0	58.79	0	57.79	0	57.21	0	58.08

TABLE A-7 SPEED DATA FREE FLOW

STATION RI 17 HIGHWAY I-70 LOCATION 1.05 MILES EAST OF STATE ROAD 9

NO OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER PARTLY SUNNY 9-8-80 HAZY 9-9-80

THIS OBSERVATION
DATE 8-8-80, 9-9-80
TIME 10:00 AM - 12:20 PM, 9-8-80, EB
10:40 - 11:55 AM, 9-9-80 WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	219	0	77	0	142	0	205	0	55	0	150
AVE SPEED (MPH)	0	58.34	0	58.14	0	58.45	0	58.20	0	56.96	0	58.66
STANDARD DEVIATION	0	4.270	0	4.471	0	4.169	0	4.64	0	4.286	0	4.694
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH		.5			0	.7		1.0	0	1.8	0	.7
OF 49 MPH	0	.5		0	0	.7	0	3.9	0	5.5	0	3.3
VEHICLES 54 MPH	0	19.2	0	26.0	0	15.5		19.5	0	23.6	0	18.0
TRAVELING 59 MPH	0	64.4	0	59.7	0	66.9	0	60.0	0	69.1	0	56.7
AT OR 64 MPH	0	93.2	0	94.8	0	92.3	0	94.6	0	100.0	0	92.7
LESS THAN 69 MPH	0	98.2	0	98.7	0	97.9		99.5	0	100.0	0	99.3
74 MPH	0	99.5		98.7	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	115	0	45	0	70	0	99	0	27	0	72
AVERAGE SPEED	0	58.63	0	58.13	0	58.96	0	57.43	0	57.70	0	57.33
DIRECTION WB												
NUMBER OF VEHICLES	0	104	0	32	0	72	0	106	0	28	0	78
AVERAGE SPEED	0	58.02	0	58.16	0	57.96		58.92	0	56.25	0	59.88

TABLE A-8 SPEED DATA FREE FLOW

STATION RI-29 HIGHWAY I-80 & I-90 LOCATION 7.15 MILES WEST OF U.S. 421

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER OVERCAST

THIS OBSERVATION
DATE 8-5-80
TIME 1:30-2:10 PM, EB
12:40-1:20 PM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	234	0	30	0	204	0	200	0	59	0	141
AVE. SPEED (MPH)	0	59.50	0	59.43	0	59.53	0	60.55	0	58.58	0	61.58
STANDARD DEVIATION	0	4.302	0	3.702	0	4.392	0	4.692	0	4.162	0	4.523
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 14 MPH	0	0	0	0	0	0	0	0	0	0	0	0
19 MPH	0	0	0	0	0	0	0	0	0	0	0	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH		1.3			0	1.5	0	0	0	0	0	0
54 MPH	0	8.5	0	6.7	0	8.8	0	11.0	0	22.0	0	6.4
59 MPH	0	53.0	0	53.3	0	52.9	0	37.5	0	62.7	0	27.5
64 MPH	0	88.0	0	93.3	0	87.3	0	80.5	0	93.2	0	75.2
69 MPH	0	97.9	0	100.0	0	97.5		97.0	0	98.3	0	96.5
74 MPH		100.0		100.0	0	100.0		99.5	0	100.0	0	99.3
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100
DIRECTION EB												
NUMBER OF VEHICLES		117		15		97		111		29		82
AVERAGE SPEED	0	58.46	0	57.40	0	58.57	0	59.95	0	57.52	0	60.82
DIRECTION WB												
NUMBER OF VEHICLES	0	127	0	20	0	107	0	89	0	30	0	59
AVERAGE SPEED	0	60.37	0	60.45	0	60.36	0	61.29	0	58.63	0	62.64

TABLE A-9 SPEED DATA FREE FLOW

STATION 4L-17 HIGHWAY U.S. 52 LOCATION 150' EAST OF COUNTY ROAD 475 WEST

NO OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER OVERCAST 7-28-80 SUNNY 7-29-80

THIS OBSERVATION
DATE 7-28-80, 7-29-80
TIME 9:05-10:20 AM, 7-28-80, EB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 5-27-80
TIME 9:30-10:45 AM, EB
11:00 AM - 12:30 PM, WB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	277	284	251	257	26	27	148	143	84	74	64	69
AVE SPEED (MPH)	55.90	55.74	55.60	55.59	58.20	57.19	55.00	56.22	54.70	55.23	55.30	57.29
STANDARD DEVIATION	5.329	5.500	5.359	5.530	4.436	5.769	4.779	5.655	4.728	4.914	4.857	6.215
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	.4	.7	.4	.8	0	0	0	.7	0	1.4	0	0
44 MPH	2.9	2.8	.9	3.1	0	0	.7	2.1	0	2.7	1.6	1.4
49 MPH	11.6	10.6	12.4	10.5	3.8	11.1	11.5	11.2	11.9	10.8	10.9	11.6
54 MPH	33.9	37.3	3[illegible].9	38.5	15.4	25.9	48.6	36.4	53.6	39.2	42.2	33.3
59 MPH	78.3	78.2	79.7	79.4	65.4	66.7	82.4	73.4	83.3	83.8	81.3	62.3
64 MPH	96.4	95.1	96.4	95.3	96.2	92.6	97.3	92.3	97.6	97.3	96.9	87.0
69 MPH	98.9	99.3	98.8	99.2	100.0	100.0	100.0	98.6	100.0	100.0	100.0	97.1
74 MPH	99.6	99.6	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	149	145	41	127	8	18	65	69	40	41	25	28
AVERAGE SPEED	56.10	57.30	55.90	57.24	61.30	57.78	55.50	57.87	55.00	55.71	56.20	61.34
DIRECTION WB												
NUMBER OF VEHICLES	128	139	110	130	18	9	83	74	44	33	39	41
AVERAGE SPEED	55.50	54.12	55.30	53.98	56.80	56.00	54.60	54.69	54.40	54.64	54.80	54.73

TABLE A-10 SPEED DATA FREE FLOW

STATION 4L-32 HIGHWAY U.S. 30 LOCATION 2.9 MILES WEST OF WANATAH CITY LIMIT SIGN

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-1-80
TIME 11:00-11:50 AM, EB
10:15 - 10:55 AM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 6-5-80
TIME 11:50 AM - 1:15 PM, EB
9:05 - 10:30 AM, WB

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	238	268	187	189	51	79	185	163	47	57	138	106
AVE. SPEED (MPH)	56.80	57.13	56.50	56.88	58.20	57.73	56.40	56.65	54.80	56.49	57.00	56.74
STANDARD DEVIATION	4.665	4.448	4.524	4.469	4.616	4.367	4.876	4.686	5.174	4.696	4.665	4.748
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.6	0	0	0	.9
44 MPH	.4	.4	.5	.5	0	0	1.6	1.2	2.1	0	1.4	1.9
49 MPH	5.5	5.6	5.9	7.4	3.9	1.3	10.8	4.9	14.9	3.5	9.4	5.7
54 MPH	33.3	25.7	33.7	26.5	17.6	24.1	28.6	30.7	51.1	35.1	21.0	28.3
59 MPH	73.1	70.5	70.5	69.8	60.8	72.2	74.6	75.5	85.1	84.2	71.0	70.8
64 MPH	94.5	95.5	95.7	96.8	90.2	92.4	97.3	95.1	97.9	93.0	97.1	96.2
69 MPH	99.6	99.6	99.5	100.0	100.0	98.7	99.5	99.4	97.9	98.2	100.0	100.0
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	111	134	83	84	28	50	101	82	25	32	76	50
AVERAGE SPEED	56.40	57.58	56.00	57.10	57.40	58.40	55.70	57.29	54.90	56.59	56.00	57.74
DIRECTION WB												
NUMBER OF VEHICLES	127	134	104	105	23	29	84	81	22	25	62	56
AVERAGE SPEED	57.20	56.68	56.80	56.70	59.10	56.59	57.20	56.00	54.70	56.36	58.10	55.84

TABLE A-11 SPEED DATA FREE FLOW

STATION 41 20 HIGHWAY U.S. 41 LOCATION 1.1 MILES NORTH OF STATE ROAD 2

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER SUNNY

THIS OBSERVATION
DATE 8-15-80
TIME 11:30 AM - 12:30 PM, NB
10:20 - 11:20 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 9-5-79
TIME 10:30 AM - 12:22 PM, NB
12:35 - 1:56 PM, SB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	231	250	103	165	128	85	195	179	80	78	115	101
AVE. SPEED (MPH)	56.60	57.17	56.51	57.14	56.60	57.22	55.90	56.38	55.80	56.24	56.00	56.49
STANDARD DEVIATION	5.106	4.445	4.90	4.430	5.216	4.500	6.658	5.287	5.695	5.494	7.278	5.147
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	1.5	0	0	0	2.6	0
39 MPH	0	0	0	0	0	0	3.1	.6	1.3	1.3	4.3	0
44 MPH	0	.4	0	.6	0	0	3.6	1.1	2.5	2.6	4.3	0
49 MPH	6.1	4.8	5.8	4.8	6.3	4.7	11.8	9.5	11.3	10.3	12.2	8.9
54 MPH	38.1	28.4	33.8	28.5	37.5	28.2	40.5	31.8	42.5	38.8	39.1	32.7
59 MPH	74.5	70.8	71.8	73.3	76.6	65.9	73.3	72.1	77.5	74.4	70.4	70.3
64 MPH	91.3	95.2	92.3	95.2	91.4	95.3	89.7	94.4	91.3	94.9	88.7	94.1
69 MPH	99.1	99.6	9 .0	100.0	99.2	98.8	99.5	100.0	98.8	100.0	100.0	100.0
74 MPH	100.0	100.0	10 .0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	10 .0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	120	127	59	89	61	38	93	90	46	45	47	45
AVERAGE SPEED	55.30	56.28	55.40	56.42	55.10	55.95	52.80	55.19	53.30	55.78	52.30	54.60
DIRECTION SB												
NUMBER OF VEHICLES	111	123	44	76	67	47	102	89	34	33	68	56
AVERAGE SPEED	58.00	58.09	58.00	57.99	58.00	58.26	58.80	57.58	59.40	56.88	58.50	58.00

TABLE A-12 SPEED DATA FREE FLOW

STATION 41-21 HIGHWAY U.S. 31 LOCATION 1.1 MILES SOUTH OF STATE ROAD 38

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY (NIGHT READING)

THIS OBSERVATION
DATE 8-7-80
TIME 9:40 - 10:30 PM, NB
8:25 - 9:15 PM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-10-79
TIME 11:02 - 11:57 AM, NB
10:26 - 10:59 AM, SB

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	298	336	281	336	17	0	125	91	55	41	70	50
AVE. SPEED (MPH)	56.60	54.99	56.60	54.99	56.80	0	55.90	53.25	55.60	51.66	56.20	54.56
STANDARD DEVIATION	4.379	4.948	4.35	4.948	3.419	0	4.721	5.917	4.058	7.063	5.197	4.441
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	.8	0	0	0	1.4	0
39 MPH	0	0	0	0	0	0	.8	2.2	0	4.9	1.4	0
44 MPH	1.0	.3	.1	.3	0	0	1.6	5.5	0	12.2	2.9	0
49 MPH	4.0	13.4	4.3	13.4	0	0	8.0	24.2	5.5	34.1	10.0	16.0
54 MPH	29.5	45.8	29.9	45.8	23.5	0	33.6	57.1	40.0	70.7	28.6	46.0
59 MPH	76.5	83.0	77.8	83.0	88.2	0	79.2	85.7	83.6	85.4	75.7	86.0
64 MPH	96.0	97.9	96.1	97.0	94.1	0	98.4	97.8	98.2	95.1	98.6	100.0
69 MPH	100.0	99.4	100.0	99.4	100.0	0	99.2	100.0	100.0	100.0	98.6	100.0
74 MPH	100.0	99.7	100.0	99.7	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	99.7	100.0	99.7	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	147	177	141	177	6	0	67	39	25	16	42	23
AVERAGE SPEED	56.70	56.28	56.70	56.28	56.50	0	55.5	55.28	55.80	54.44	55.30	55.87
DIRECTION SB												
NUMBER OF VEHICLES	151	159	140	159	11	0	58	52	30	25	28	27
AVERAGE SPEED	56.50	53.55	56.40	53.55	56.90	0	56.40	51.73	55.40	49.88	57.50	53.44

TABLE A-13 SPEED DATA FREE FLOW

STATION 41-1 HIGHWAY U.S. 41 LOCATION 1.2 MILES NORTH OF STATE ROAD 168

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER PARTLY SUNNY

THIS OBSERVATION
DATE 8-12-80
TIME 1:20 - 2:10 PM, NB
2:20 - 3:05 PM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	273	0	206	0	67	0	146	0	73	0	73
AVE. SPEED (MPH)	0	56.77	0	56.34	0	58.09	0	56.08	0	55.77	0	56.38
STANDARD DEVIATION	0	4.218	0	4.353	0	3.485	0	5.133	0	4.483	0	5.724
24 MPH	0		0		0		0		0		0	
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.4	0	.5	0	0	0	1.4	0	0	0	2.7
PERCENT 44 MPH	0	.7	0	1.0	0	0	0	2.1	0	0	0	4.1
OF 49 MPH	0	4.8	0	6.3	0	0	0	8.2	0	8.2	0	8.2
VEHICLES 54 MPH	0	24.9	0	28.2	0	14.9	0	35.6	0	39.7	0	31.5
TRAVELING 59 MPH	0	76.2	0	78.2	0	70.1	0	72.6	0	79.5	0	65.8
AT OR 64 MPH	0	97.1	0	97.6	0	95.5	0	96.6	0	97.3	0	95.9
LESS THAN 69 MPH	0	99.3	0	99.5	0	98.5	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	140	0	104	0	36	0	75	0	37	0	38
AVERAGE SPEED	0	56.62	0	56.13	0	58.03	0	55.49	0	55.27	0	55.71
DIRECTION SB												
NUMBER OF VEHICLES	0	133	0	102	0	31	0	71	0	36	0	35
AVERAGE SPEED	0	56.93	0	56.56	0	58.16	0	56.69	0	56.28	0	57.11

TABLE A-14 SPEED DATA FREE FLOW

STATION 4L-6 HIGHWAY U.S. 40 LOCATION 1.75 MILES WEST OF BRAZIL CITY LIMITS

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-11-80
TIME 12:05 - 1:15 PM, EB
10:50 AM - 12:05 PM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	363	0	346	0	17	0	162	0	101	0	61
AVE. SPEED (MPH)	0	54.93	0	54.98	0	54.00	0	53.28	0	53.96	0	52.16
STANDARD DEVIATION	0	5.188	0	5.126	0	6.432	0	5.982	0	5.718	0	6.283
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.3	0	.3	0	0	0	.6	0	0	0	1.6
39 MPH	0	.8	0	.9	0	0	0	2.5	0	0	0	6.6
44 MPH	0	3.3	0	2.9	0	11.8	0	8.6	0	5.9	0	13.1
49 MPH	0	14.0	0	13.3	0	29.4	0	24.7	0	22.8	0	27.9
54 MPH	0	37.7	0	37.3	0	47.1	0	51.9	0	51.5	0	54.1
59 MPH	0	86.0	0	86.4	0	76.5	0	90.7	0	87.1	0	96.7
64 MPH	0	97.8	0	97.7	0	100.0	0	96.9	0	99.0	0	100.0
69 MPH	0	99.2	0	99.1	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	210	0	203	0	7	0	92	0	54	0	36
AVERAGE SPEED	0	54.97	0	55.02	0	53.29		53.77	0	53.39	0	54.33
DIRECTION WB												
NUMBER OF VEHICLES	0	153	0	143	0	10	0	72	0	47	0	25
AVERAGE SPEED	0	54.88	0	54.91	0	54.50	0	52.68	0	54.62	0	49.04

TABLE A-15 SPEED DATA FREE FLOW

STATION 41:22 HIGHWAY U. S. 31 LOCATION 1.65 MILES SOUTH OF STATE ROAD 26

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-28-80
TIME 11:50 AM - 12:55 PM, NB
9:40 - 10:50 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ___)
DATE ___
TIME ___

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	313	0	256	0	57	0	135	0	58	0	77
AVE. SPEED (MPH)	0	55.17	0	55.86	0	52.04	0	56.84	0	56.74	0	56.92
STANDARD DEVIATION	0	9.117	0	7.563	0	*	0	4.125	0	4.203	0	4.090
24 MPH	0		0		0				0			
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.3	0	.4	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.3	0	.4	0	0		0	0	0	0	0
OF 49 MPH	0	3.2	0	3.1	0	3.5		5.2	0	6.9	0	3.9
VEHICLES 54 MPH	0	20.4	0	20.7	0	19.3	0	25.9	0	29.3	0	23.4
TRAVELING 59 MPH		69.[illegible]	0	73.0	0	50.9	0	73.3	0	75.9	0	71.4
AT OR 64 MPH	0	89.8	0	93.0	0	75.4	0	97.0	0	96.6	0	97.4
LESS THAN 69 MPH	0	93.3	0	96.1	0	80.7	0	100.0	0	100.0	0	100.0
74 MPH	0	93.6	0	96.1	0	82.5	0	1[illegible]	0	1[illegible]	0	1[illegible]
79 MPH	0	93.6	0	96.1	0	82.5		100.0	0	100.0	0	100.0
84 MPH		93.6		96.1		82.5		100.0	0	100.0	0	100.0
89 MPH	0	93.6	0	96.1	0	82.5	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	145	0	127	0	18	0	70	0	29	0	41
AVERAGE SPEED		58.23	0	58.06	0	57.89	0	56.90	0	56.48	0	57.20
DIRECTION SB												
NUMBER OF VEHICLES	0	148	0	139	0	39	0	75	0	29	0	36
AVERAGE SPEED	0	56.57	0	51.57	0	49.33	0	52.41	0	57.00	0	56.61

TABLE A-16 SPEED DATA FREE FLOW

STATION 41-26 HIGHWAY STATE ROAD 9 LOCATION 1.4 MILES NORTH OF STATE ROAD 124

NO. OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER HAZY

THIS OBSERVATION
DATE 8-25-80
TIME 11:15 AM - 2:20 PM, NB
2:25 - 4:45 PM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	281	0	265	0	16	0	137	0	49	0	88
AVE. SPEED (MPH)	0	56.83	0	56.69	0	59.12	0	56.58	0	54.69	0	57.63
STANDARD DEVIATION	0	5.304	0	5.335	0	4.288	0	6.091	0	5.542	0	6.159
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.4	0	.4	0	0	0	0	0	0	0	0
39 MPH	0	.4	0	.4	0	0	0	1.5	0	2.0	0	1.1
PERCENT 44 MPH	0	1.8	0	1.9	0	0	0	2.9	0	2.0	0	3.4
OF 49 MPH	0	7.8	0	8.3	0	0	0	10.9	0	16.3	0	8.0
VEHICLES 54 MPH	0	26.0	0	27.2	0	6.3	0	35.[illegible]	0	51.0	0	26.1
TRAVELING 59 MPH	0	72.6	0	73.6	0	56.3	0	65.7	0	81.6	0	56.8
AT OR 64 MPH	0	93.2	0	93.6	0	87.5	0	91.2	0	91.8	0	90.9
LESS THAN 69 MPH	0	98.9	0	98.9	0	100.0	0	99.3	0	100.0	0	98.9
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	141	0	131	0	10	0	67	0	29	0	38
AVERAGE SPEED	0	56.93	0	56.71	0	59.80	0	55.76	0	54.00	0	57.11
DIRECTION SB												
NUMBER OF VEHICLES	0	140	0	134	0	6	0	70	0	20	0	50
AVERAGE SPEED	0	56.73	0	56.67	0	58.00	0	57.36	0	55.70	0	58.02

TABLE A-17 SPEED DATA FREE FLOW

STATION 21:18 HIGHWAY U.S. 35 LOCATION 2.5 MILES EAST OF I-69

NO OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER SUNNY

THIS OBSERVATION
DATE 8-22-80
TIME 10:50 AM - 12:45 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 6-2-80
TIME 10:55 AM - 12:05 PM

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	275	287	260	267	15	20	154	143	69	63	85	8
AVE. SPEED (MPH)	54.20	56.45	54.10	56.31	55.80	58.35	53.30	55.24	52.90	55.30	53.50	55.19
STANDARD DEVIATION	5.744	4.855	5.015	4.835	4.178	4.837	6.063	4.963	5.742	5.529	6.333	4.503
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	.6	0	0	0	1.2	0
39 MPH	.4	0	.4	0	0	0	1.9	0	2.9	0	1.2	0
44 MPH	4.0	.7	3.8	.7	6.7	0	8.4	1.4	10.1	3.2	7.1	0
49 MPH	17.8	6.3	18.5	6.7	6.7	0	19.5	11.2	23.2	11.1	16.5	11.3
54 MPH	50.5	32.1	52.3	33.0	20.0	20.0	57.8	44.8	53.6	42.9	61.2	46.3
59 MPH	83.6	77.4	84.5	78.3	86.7	65.0	87.7	82.5	92.8	77.8	83.5	86.3
64 MPH	96.0	94.4	95.8	95.1	100.0	85.0	98.7	95.1	98.6	93.7	98.8	96.3
69 MPH	98.9	99.0	99.8	98.9	100.0	100.0	99.4	99.3	100.0	98.4	98.8	100.0
74 MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.4	100.0	100.0	100.0	98.8	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	157	129	150	118	7	11	60	82	27	42	33	40
AVERAGE SPEED	53.70	56.84	53.60	56.60	55.60	59.45	53.50	55.11	54.30	54.45	52.90	55.80
DIRECTION WB												
NUMBER OF VEHICLES	118	158	110	149	8	9	94	61	42	21	52	40
AVERAGE SPEED	54.90	56.13	54.90	56.08	56.00	57.00	53.10	55.41	52.10	57.00	53.90	54.57

TABLE A-18 SPEED DATA FREE FLOW

STATION 2L-54 HIGHWAY U. S. 231 LOCATION 1.1 MILES SOUTH OF STATE ROAD 234

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER PARTLY CLOUDY

THIS OBSERVATION
DATE 8-6-80 , 8-7-80
TIME 10:15 AM - 12:20 PM, 8-6-80
10:30 AM - 11:45 PM, 8-7-80

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 6-9-80
TIME 9:30 AM - 12:15 PM

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	227	267	210	248	17	19	205	158	108	55	97	103
AVE. SPEED (MPH)	54.70	56.98	54.60	56.81	55.70	59.26	54.6	55.72	54.00	55.22	55.30	55.98
STANDARD DEVIATION	4.801	5.858	4.86	5.884	5.022	5.108	4.966	5.591	4.574	5.456	5.302	5.671
4 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	.4	.4	.5	.4	0	0	.5	.6	0	0	1.0	1.0
PERCENT 44 MPH	2.2	2.6	2.4	2.8	0	0	2.4	5.7	1.9	3.6	3.1	6.8
OF 49 MPH	15.1	6.7	14.8	7.3	17.6	0	14.6	10.8	16.7	14.5	12.4	8.7
VEHICLES 54 MPH	48.9	33.3	50.0	34.3	35.3	21.1	47.8	34.8	53.7	38.2	41.2	33.0
TRAVELING 59 MPH	83.7	69.7	83.8	71.4	82.4	47.4	83.9	78.5	88.9	78.2	78.4	78.6
AT OR 64 MPH	98.7	91.4	98.6	91.1	100.0	94.7	97.6	96.2	97.2	96.4	97.9	96.1
LESS THAN 69 MPH	100.0	97.4	100.0	97.6	100.0	94.7	100.0	99.4	100.0	100.0	100.0	99.0
74 MPH	100.0	98.5	100.0	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	126	131	122	120	4	11	86	83	39	23	47	60
AVERAGE SPEED	54.60	56.88	54.50	56.57	57.00	60.27	54.90	56.49	53.30	56.48	56.20	56.50
DIRECTION SB												
NUMBER OF VEHICLES	101	136	88	128	13	8	119	75	69	32	50	43
AVERAGE SPEED	54.80	57.18	54.70	57.03	55.30	57.87	54.40	54.85	54.30	54.31	54.50	55.26

TABLE A-19 SPEED DATA FREE FLOW

STATION 21 79 HIGHWAY SR 25 LOCATION 0.7 MILES SOUTH OF AMERICUS

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY (NIGHT READING)

THIS OBSERVATION
DATE 7-31-80
TIME 8:30 - 11:30 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-3-79
TIME 11:00 AM - 12:59 PM

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	278	377	261	377	17	0	156	50	76	0	80	50
AVE. SPEED (MPH)	55.80	53.40	55.80	53.40	55.60	0	53.60	52.42	54.00	0	53.30	52.42
STANDARD DEVIATION	5.792	5.234	5.804	5.234	5.778	0	5.138	5.241	4.954	0	5.309	5.241
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	[illegible]	3	[illegible]	3	0	0	6	2.0	0	0	1.3	2.0
44 MPH	1.1	2.7	.8	2.7	5.9	0	2.6	4.0	0	0	5.0	4.0
49 MPH	9.4	19.1	8.8	19.1	17.6	0	20.5	32.0	19.7	0	21.3	32.0
54 MPH	40.6	61.0	41.0	61.0	35.3	0	53.2	68.0	51.3	0	55.0	68.0
59 MPH	83.1	90.5	83.1	90.5	82.4	0	87.2	90.0	86.8	0	87.5	90.0
64 MPH	95.0	98.1	94.6	98.1	100.0	0	97.4	98.0	96.1	0	98.8	98.0
69 MPH	98.6	98.7	98.5	98.7	100.0	0	100.0	100.0	100.0	0	100.0	100.0
74 MPH	98.9	99.2	98.9	99.2	100.0	0	100.0	100.0	100.0	0	100.0	100.0
79 MPH	99.3	99.7	99.2	99.7	100.0	0	100.0	100.0	100.0	0	100.0	100.0
84 MPH	99.3	100.0	99.2	100.0	100.0	0	100.0	100.0	100.0	0	100.0	100.0
89 MPH	99.6	100.0	99.6	100.0	100.0		100.0	100.0	100.0		100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	142	185	131	185	12	0	72	25	33	0	39	25
AVERAGE SPEED	55.90	53.59	55.90	53.59	55.70	0	53.80	51.12	53.30	0	54.20	51.12
DIRECTION SB												
NUMBER OF VEHICLES	136	192	131	192	5	0	84	25	43	0	41	25
AVERAGE SPEED	55.70	53.21	55.70	53.21	55.40	0	53.50	53.72	54.60	0	52.40	53.72

TABLE A-20 SPEED DATA FREE FLOW

STATION 21-91 HIGHWAY SR 43 LOCATION 2 MILES SOUTH OF CHALMERS

NO OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER PARTLY CLOUDY

THIS OBSERVATION
DATE 8-8-80
TIME 9:00 - 11:20 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 8-6-79
TIME 10:46 AM - 12:51 PM

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<50 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	262	299	255	289	7	10	156	136	77	71	79	65
AVE SPEED (MPH)	56.60	55.00	56.60	54.93	58.40	56.90	56.20	54.80	56.40	54.90	55.90	54.69
STANDARD DEVIATION	5.514	5.376	5.152	5.335	3.645	4.175	5.375	4.947	4.988	5.254	5.616	4.626
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	.4	0	.4	0	0	0	0	0	0	0	0	0
39 MPH	.4	.7	.4	.7	0	0	1.3	0	0	0	2.5	0
PERCENT 44 MPH	.8	3.3	.8	3.5	0	0	2.6	.7	0	0	5.1	1.5
OF 49 MPH	5.7	13.7	5.9	14.2	0	0	8.3	13.2	6.5	15.5	10.1	10.8
VEHICLES 54 MPH	36.6	41.1	36.9	41.5	28.6	30.0	34.6	44.1	35.1	45.1	34.2	43.1
TRAVELING 59 MPH	77.5	84.3	78.4	84.4	42.9	80.0	76.9	83.1	77.9	78.9	75.9	87.7
AT OR 64 MPH	89.7	96.3	89.4	96.5	100.0	90.0	92.9	96.3	88.3	95.8	97.5	96.9
LESS THAN 69 MPH	97.3	98.7	97.3	98.6	100.0	100.0	98.1	100.0	97.4	100.0	98.7	100.0
74 MPH	99.2	100.0	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	99.6	100.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	133	140	131	132	2	8	77	77	34	37	43	40
AVERAGE SPEED	56.30	54.37	56.30	54.17	55.50	57.63	55.60	55.69	56.30	55.51	55.10	55.85
DIRECTION SB												
NUMBER OF VEHICLES	129	159	124	157	5	2	79	59	43	34	36	25
AVERAGE SPEED	56.90	55.55	56.80	55.57	59.60	54.00	56.70	53.64	56.60	54.24	56.90	52.84

TABLE A=21 SPEED DATA FREE FLOW

STATION 2L5 HIGHWAY S.R. 3 LOCATION 1.4 MILES NORTH OF BLACKFORD-DELAWARE COUNTY LINE

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER PARTLY SUNNY

THIS OBSERVATION
DATE 8-4-80
TIME 10:40 AM - 12:40 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	314	0	272	0	42	0	136	0	71	0	65
AVE SPEED (MPH)	0	53.80	0	54.19	0	51.26	0	53.52	0	53.87	0	53.14
STANDARD DEVIATION	0	5.181	0	4.348	0	8.503	0	5.325	0	5.629	0	4.987
24 MPH												
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.7	0	0	0	1.5
PERCENT 44 MPH	0	1.0	0	.7	0	2.4	0	2.9	0	1.4	0	4.6
OF 49 MPH	0	17.2	0	11.4	0	54.8		22.8	0	25.4		22.0
VEHICLES 54 MPH	0	59.2	0	58.1	0	66.7	0	57.4	0	60.6	0	53.8
TRAVELING 59 MPH		87.3	0	87.1	0	88.1	0	87.5	0	85.9	0	89.2
AT OR 64 MPH	0	97.5	0	98.5	0	90.5	0	97.8	0	95.8	0	100.0
LESS THAN 69 MPH	0	99.4	0	99.6	0	97.6	0	99.3	0	98.6	0	100.0
74 MPH	0	99.7	0	100.0	0	97.6		99.3	0	98.6	0	100.0
79 MPH	0	99.7	0	100.0	0	97.6	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	142	0	122	0	20	0	73	0	41	0	32
AVERAGE SPEED	0	55.65	0	55.35	0	57.45		54.36	0	55.12	0	53.38
DIRECTION SB												
NUMBER OF VEHICLES	0	172	0	150	0	22	0	63	0	30	0	33
AVERAGE SPEED	0	52.27	0	53.25	0	45.64	0	52.56	0	52.17	0	52.91

TABLE A-22 SPEED DATA FREE FLOW

STATION 2L-8 HIGHWAY S.R. 25 LOCATION 10.95 MILES NORTH OF DELPHI CITY LIMITS

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY

THIS OBSERVATION
DATE 9-4-80, 9-5-80
TIME 9:35 AM - 2:15 PM, 9-4-80
9:00 AM - 10:10 AM, 9-5-80

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		≥5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	235	0	203	0	32	0	196	0	63	0	133
AVE. SPEED (MPH)	0	57.51	0	56.92	0	61.25		56.51	0	55.70	0	56.89
STANDARD DEVIATION	0	6.332	0	5.980	0	7.273	0	5.481	0	5.538	0	5.434
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.4	0	.5	0	0	0	.5	0	1.6	0	0
44 MPH	0	3.4	0	3.9	0	0	0	2.6	0	1.6	0	3.0
49 MPH	0	8.5	0	8.9	0	6.3		8.7	0	7.9	0	9.0
54 MPH		28.1		30.5		12.5		34.2	0	41.3	0	30.8
59 MPH	0	65.1	0	68.0	0	46.9	0	71.9	0	82.5	0	66.9
64 MPH	0	88.1	0	92.1	0	62.5		93.9	0	95.2	0	93.2
69 MPH	0	97.9	0	98.5	0	93.8	0	98.5	0	96.8	0	99.2
74 MPH	0	99.1	0	99.5	0	96.9		100.0	0	100.0	0	100.0
79 MPH	0	100.0		100.0	0	100.0		100.0		100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	129	0	101	0	28		92	0	30	0	62
AVERAGE SPEED	0	57.71	0	56.69	0	61.39		55.65	0	54.13	0	56.39
DIRECTION SB												
NUMBER OF VEHICLES	0	106	0	102	0	4	0	104	0	33	0	71
AVERAGE SPEED	0	57.26	0	57.15	0	60.25		57.26	0	57.12	0	57.32

TABLE A-23 SPEED DATA FREE FLOW

STATION 21:72 HIGHWAY U. S. 31 LOCATION 0.85 MILES NORTH OF SCOTTSBURG CITY LIMITS

NO OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-19-80
TIME 8:20 - 10:25 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	335	0	287	0	48	0	137	0	85	0	52
AVE SPEED (MPH)	0	53.48	0	52.1[illegible]	0	61.71	0	50.44	0	50.42	0	50.46
STANDARD DEVIATION	0	7.346	0	6.688	0	5.531	0	5.910	0	5.824	0	6.105
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	[illegible]	0	[illegible]	0	0			0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	.7	0	1.2	0	0
39 MPH	0	2.1	0	2.1	0	2.1	0	2.9	0	3.5	0	1.9
44 MPH	0	10.4	0	11.8	0	2.1	0	14.6	0	15.3	0	13.5
49 MPH	0	30.4	0	34.8	0	4.2	0	46.7	0	47.1	0	46.2
54 MPH	0	57.6	0	65.5	0	10.4	0	78.1	0	80.0	0	75.0
59 MPH	0	75.5	0	86.1	0	12.5	0	91.2	0	91.8	0	90.4
64 MPH	0	90.1	0	95.8	0	56.3	0	98.5	0	98.8	0	98.1
69 MPH	0	99.4	0	99.3	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.7	0	99.7	0	100.0		100.	0	100.0		100.
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH		100.0		100.0		100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	154	0	148	0	6	0	68	0	41	0	27
AVERAGE SPEED	0	52.19	0	52.14	0	53.33	0	50.43	0	49.49	0	51.85
DIRECTION SB												
NUMBER OF VEHICLES	0	181	0	139	0	42	0	69	0	44	0	25
AVERAGE SPEED	0	54.58	0	52.06	0	62.9[illegible]	0	50.45	0	51.30	0	48.96

TABLE A-24 SPEED DATA FREE FLOW

STATION 21-88 HIGHWAY U.S. 60 LOCATION 1.6 MILES WEST OF STATE ROAD 56

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER SUNNY

THIS OBSERVATION
DATE 8-21-80
TIME 8:00 - 10:20 AM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.	>5000 LBS.
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST PRESENT	LAST PRESENT
NUMBER OF VEHICLES	0	269	0	260	0	9	0	168	0 92	0 76
AVE. SPEED (MPH)	0	55.44	0	55.33	0	58.56	0	53.17	0 53.30	0 53.00
STANDARD DEVIATION	0	5.825	0	5.878	0	2.555	0	5.914	0 5.834	0 6.044
PERCENT OF VEHICLES TRAVELING OVER LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0 0	0 0
29 MPH	0	0	0	0	0	0	0	0	0 0	0 0
34 MPH	0	0	0	0	0	0	0	0	0 0	0 0
39 MPH	0	.7	0	.8	0	0	0	1.2	0 0	0 2.6
44 MPH	0	4.5	0	4.6	0	0	0	10.1	0 8.7	0 11.8
49 MPH	0	13.4	0	13.8	0	0	0	25.6	0 25.0	0 26.3
54 MPH	0	42.9	0	42.3	0	0	0	53.[illegible]	0 53.3	0 52.6
59 MPH	0	78.8	0	79.2	0	66.7	0	87.5	0 84.8	0 90.8
64 MPH	0	93.3	0	93.1	0	100.0	0	98.8	0 98.9	0 98.7
69 MPH	0	98.9	0	98.8	0	100.0	0	100.0	0 100.0	0 100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0 100.0	0 100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0 100.0	0 100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0 100.0	0 100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0 100.0	0 100.0
DIRECTION EB										
NUMBER OF VEHICLES	0	146	0	141	0	5	0	69	0 40	0 29
AVERAGE SPEED	0	56.04	0	55.96	0	58.40	0	53.8[illegible]	0 54.15	0 53.31
DIRECTION WB										
NUMBER OF VEHICLES	0	123	0	119	0	4	0	99	0 52	0 47
AVERAGE SPEED	0	54.72	0	54.59	0	58.75	0	52.73	0 52.65	0 52.81

TABLE A-25 SPEED DATA FREE FLOW

STATION UI-26 HIGHWAY I-65 LOCATION JUST EAST OF WHITE RIVER

NO. OF LANES 6 TYPE OF SURFACE CONCRETE WEATHER SUNNY

THIS OBSERVATION
DATE 8-10-80
TIME 10:00 - 10:30 AM, EB
11:40 AM - 12:05 PM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE 5-28-80
TIME 10:30 - 11:00 AM, EB
12:10 - 12:35 PM, WB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	323	0	284	0	39	0	113	0	59	0	54
AVE. SPEED (MPH)	0	57.80	0	58.05	0	55.95	0	57.14	0	58.64	0	55.50
STANDARD DEVIATION	0	4.560	0	4.086	0	6.917	0	4.594	0	4.708	0	3.884
24 MPH	0		0		0		0		0		0	
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.3	0	.4	0	0	0	0	0	0	0	0
OF 49 MPH	0	4.3	0	1.4	0	25.6	0	2.7	0	1.7	0	3.7
VEHICLES 54 MPH	0	17.0	0	15.5	0	28.2	0	28.3	0	20.3	0	37.0
TRAVELING 59 MPH	0	68.1	0	68.0	0	69.2	0	73.5	0	57.6	0	90.7
AT OR 64 MPH	0	94.4	0	95.1	0	89.7	0	92.0	0	89.8	0	94.4
LESS THAN 69 MPH	0	98.5		98.6	0	97.4	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	145	0	131	0	14	0	67	0	38	0	29
AVERAGE SPEED	0	58.19	0	57.98	0	60.07	0	57.00	0	58.24	0	55.38
DIRECTION WB												
NUMBER OF VEHICLES	0	178	0	153	0	25	0	46	0	21	0	25
AVERAGE SPEED	0	57.48	0	58.10	0	53.64	0	57.35	0	59.38	0	55.64

TABLE A-26 SPEED DATA FREE FLOW

STATION UI-C1 HIGHWAY I-80 LOCATION FIRST BRIDGE EAST OF BURR STREET INTERCHANGE

NO. OF LANES 6 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY

THIS OBSERVATION
DATE 7-30-80
TIME 12:58 - 1:20 PM, EB
10:30 - 11:02 AM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 110)
DATE 9-10-79
TIME 12:27 - 12:51 PM, EB
12:15 AM - 12:06 PM, WB

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	193	0	127	0	66	0	235	0	69	0	166
AVE. SPEED (MPH)	0	56.72	0	56.43	0	57.27	0	55.46	0	54.90	0	55.69
STANDARD DEVIATION	0	4.265	0	4.421	0	3.921	0	4.452	0	4.492	0	4.428
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	0	0	0	0	0	0	2.6	0	2.9	0	2.4
OF 49 MPH	0	5.2	0	6.3	0	3.0	0	9.4	0	10.1	0	9.0
VEHICLES 54 MPH	0	28.0	0	30.7	0	22.7	0	37.9	0	40.6	0	36.7
TRAVELING 59 MPH	0	75.6	0	80.3	0	66.7	0	85.1	0	85.5	0	84.9
AT OR 64 MPH	0	97.9	0	98.4	0	97.0	0	99.6	0	100.0	0	99.4
LESS THAN 69 MPH	0	99.0	0	98.4	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.5	0	99.2	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	97	0	63	0	34	0	117	0	37	0	80
AVERAGE SPEED	0	57.43	0	57.22	0	57.82		55.99	0	55.73	0	56.11
DIRECTION WB												
NUMBER OF VEHICLES	0	96	0	64	0	32	0	118	0	32	0	86
AVERAGE SPEED	0	56.00	0	55.66	0	56.69	0	54.92	0	53.94	0	55.29

TABLE A-27 SPEED DATA FREE FLOW

STATION UI-03 HIGHWAY I-69 LOCATION 2.1 MILES NORTH OF STATE ROAD 14

NO OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER SUNNY

THIS OBSERVATION
DATE 8-26-80
TIME 8:05 - 8:35 AM, NB
9:55 - 10:25 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	303	0	240	0	63	0	123	0	43	0	80
AVE. SPEED (MPH)	0	57.91	0	57.78	0	58.41	0	56.33	0	57.05	0	55.94
STANDARD DEVIATION	0	4.452	0	4.570	0	3.962	0	4.646	0	4.855	0	4.513
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0		0		0	0	0		0		0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.3	0	.4	0	0	0	0	0	0	0	0
39 MPH	0	.7	0	.8	0	0	0	0	0	0	0	0
44 MPH	0	1.0	0	1.3	0	0	0	1.6	0	4.7	0	0
49 MPH	0	2.6	0	3.3	0	0	0	9.8	0	7.0	0	11.3
54 MPH	0	19.5	0	19.6	0	19.0	0	30.1	0	25.6	0	32.5
59 MPH	0	68.0	0	68.3	0	66.7	0	75.6	0	72.1	0	77.5
64 MPH	0	94.1	0	95.0	0	90.5	0	98.4	0	97.7	0	98.8
69 MPH	0	99.7	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	154	0	136	0	18	0	58	0	20	0	38
AVERAGE SPEED	0	58.97	0	58.82	0	60.11	0	56.50	0	58.10	0	55.66
DIRECTION SB												
NUMBER OF VEHICLES	0	149	0	104	0	45		65	0	23	0	42
AVERAGE SPEED	0	56.82	0	56.42	0	57.73		56.17	0	56.13	0	56.19

TABLE A-28 SPEED DATA FREE FLOW

STATION UI-08 HIGHWAY I-265 LOCATION 1.35 MILES NORTH OF I-64

NO. OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER SUNNY, HOT

THIS OBSERVATION
DATE 8-20-80
TIME 8:05 - 9:55 AM, NB
9:10 - 9:55 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	225	0	168	0	57	0	208	0	74	0	134
AVE. SPEED (MPH)	0	57.74	0	57.25	0	59.18	0	57.40	0	56.81	0	57.73
STANDARD DEVIATION	0	4.699	0	4.100	0	5.947	0	5.107	0	5.466	0	4.887
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 4 MPH	0	0	0	0	0	0	0	0	0	0	0	0
9 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	.4	0	.6	0	0	0	.5	0	0	0	.7
49 MPH	0	3.1	0	2.4	0	5.3	0	6.3	0	6.8	0	6.0
54 MPH		23.6		25.		19.3		27.4	0	36.5	0	22.4
59 MPH	0	68.0	0	72.0	0	56.1	0	63.0	0	70.3	0	59.0
64 MPH	0	92.0	0	96.4	0	78.9	0	91.8	0	89.2	0	93.3
69 MPH	0	100.0	0	100.0	0	100.0	0	98.6	0	98.6	0	98.5
74 MPH	0	100.0	0	100.0	0	100.0	0	99.5	0	98.6	0	100.0
79 MPH		100.0		100.0	0	1 .0		100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	122	0	88	0	34	0	99	0	39	0	60
AVERAGE SPEED	0	58.52	0	57.55	0	61.06		58.69	0	57.82	0	59.25
DIRECTION SB												
NUMBER OF VEHICLES	0	103	0	80	0	23	0	109	0	35	0	74
AVERAGE SPEED	0	56.81	0	56.92	0	56.39	0	56.24	0	55.69	0	56.50

TABLE A-29 SPEED DATA FREE FLOW

STATION RIALL HIGHWAY RURAL INTERSTATE LOCATION SEE INDIVIDUAL STATIONS

NO OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE APRIL - JUNE 1980
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.	>5000 LBS.
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST PRES-ENT	LAST PRES-ENT
NUMBER OF VEHICLES	0	2074	0	1103	0	971	0	1337	0 458	0 879
AVE SPEED (MPH)	0	58.89	0	58.41	0	59.43	0	58.58	0 57.61	0 59.09
STANDARD DEVIATION	0	4.527	0	4.554	0	4.436	0	4.688	0 4.699	0 4.604
24 MPH	0		0		0		0		0	0
29 MPH	0	0	0	0	0	0	0	0	0 0	0 0
34 MPH	0	0	0	0	0	0	0	0	0 0	0 0
39 MPH	0	0	0	0	0	0	0	0	0 0	0 0
PERCENT 44 MPH	0	.3	0	.5	0	.2	0	.8	0 1.3	0 .6
OF 49 MPH	0	1.7	0	2.4	0	.9	0	3.1	0 4.1	0 2.5
VEHICLES 54 MPH	0	14.5	0	18.0	0	10.5	0	17.2	0 22.9	0 14.2
TRAVELING 59 MPH	0	57.8	0	60.7	0	54.5	0	57.6	0 66.4	0 53.0
AT OR 64 MPH	0	90.8	0	92.4	0	89.1	0	91.0	0 94.8	0 89.1
LESS THAN 69 MPH	0	98.4	0	98.7	0	97.9	0	99.2	0 99.3	0 99.1
74 MPH	0	99.6	0	99.7	0	99.5	0	99.9	0 100.0	0 99.9
79 MPH	0	99.8	0	99.9	0	99.7	0	100.0	0 100.0	0 100.0
84 MPH	0	99.9	0	99.9	0	99.9	0	100.0	0 100.0	0 100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0 100.0	0 100.0

TABLE A-30 SPEED DATA FREE FLOW

STATION 4LALL HIGHWAY 4-LANE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE APRIL - JUNE 1980
TIME

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	2358	0	2020	0	338	0	1156	0	531	0	645
AVE. SPEED (MPH)	0	56.44	0	56.26	0	57.55	0	55.76	0	55.19	0	57.57
STANDARD DEVIATION		5.638	0	5.779	0	4.566		5.52	0	5.407	0	5.225
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.1	0	.1	0	0	0	.1	0	0	0	.2
39 MPH	0	.3	0	.4	0	0	0	1.1	0	.9	0	1.2
PERCENT 44 MPH		1.3		1.4	0	.6		2.9	0	3.0	0	2.6
OF 49 MPH	0	8.4	0	9.1	0	4.4	0	11.9	0	13.7	0	9.9
VEHICLES 54 MPH	0	31.5	0	32.8	0	23.7	0	37.2	0	42.2	0	31.9
TRAVELING 59 MPH	0	76.6	0	78.1	0	67.8	0	75.9	0	81.5	0	68.8
AT OR 64 MPH	0	95.5	0	95.8	0	93.8	0	95.1	0	95.3	0	91.9
LESS THAN 69 MPH	0	98.9	0	99.0	0	98.8		99.7	0	99.8	0	96.4
74 MPH	0	99.5	0	99.4	0	100.0	0	100.0	0	100.0	0	96.9
79 MPH	0	99.5	0	99.5	0	100.0	0	100.0	0	100.0	0	96.9
84 MPH	0	99.6	0	99.5	0	100.0	0	100.0	0	100.0	0	96.9
89 MPH		99.6	0	99.5	0	100.0	0	100.0	0	100.0	0	96.9

TABLE A-31 SPEED DATA FREE FLOW

STATION 2LALL HIGHWAY 2-LANE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. LL#)
DATE APRIL - JUNE 1980
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	2383	0	2203	0	180	0	1124	0	500	0	624
AVE. SPEED (MPH)		55.7		54.82	0	58.13	0	54.25	0	53.89	0	54.53
STANDARD DEVIATION	0	5.968	0	5.753	0	7.517	0	5.762	0	5.846	0	5.681
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0		0		0	
34 MPH	0	0		0	0	0	0	.1	0	.2	0	0
39 MPH		.6		.6	0	.6	0	.9	0	.8	0	1.0
PERCENT 44 MPH	0	3.7	0	3.9	0	1.1	0	5.3	0	5.4	0	5.3
OF 49 MPH	0	15.1	0	15.2	0	15.0		19.8	0	22.4	0	17.6
VEHICLES 54 MPH	0	45.7	0	47.3	0	26.7	0	49.3	0	51.2	0	46.2
TRAVELING 59 MPH	0	79.4	0	81.7	0	52.2	0	82.9	0	83.4	0	82.5
AT OR 64 MPH		94.0		95.4	0	76.7		96.6	0	96.6	0	96.6
LESS THAN 69 MPH	0	98.7	0	98.8	0	97.8	0	99.5	0	99.2	0	99.7
74 MPH	0	99.5	0	99.6	0	98.9	0	99.9	0	99.8	0	100.0
79 MPH	0	99.9	0	100.0	0	99.4	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0		100.0		100.0		100.0		100.0		100.0

TABLE A-32 SPEED DATA FREE FLOW

STATION UIALL HIGHWAY URBAN INTERSTATE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE APRIL - JUNE 1980
TIME

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	1044	0	819	0	225		679	0	245	0	434
AVE. SPEED (MPH)	0	57.62	0	57.56	0	57.84	0	56.49	0	56.76	0	56.34
STANDARD DEVIATION	0	4.520	0	4.317	0	5.199	0	4.783	0	5.074	0	4.610
34 MPH	0		0		0				0		0	
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	.1	0	.1	0	0	0	0	0	0	0	0
49 MPH	0	.2	0	.2	0	0	0	0	0	0	0	0
PERCENT 54 MPH	0	.5	0	.6	0	0	0	1.3	0	1.6	0	1.2
OF 49 MPH	0	3.7	0	2.9	0	6.7	0	7.4	0	6.5	0	7.8
VEHICLES 54 MPH	0	21.2	0	21.[illegible]	0	21.8	0	31.7	0	31.8	0	31.6
TRAVELING 59 MPH	0	69.4	0	70.8	0	64.4	0	74.7	0	71.8	0	76.3
AT OR 64 MPH	0	94.4	0	95.8	0	89.3	0	95.7	0	93.9	0	96.8
LESS THAN 69 MPH	0	99.2	0	99.1	0	99.6	0	99.6	0	99.6	0	99.5
74 MPH	0	99.9	0	99.9	0	100.0		99.9	0	99.6	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-33 SPEED DATA FREE FLOW

STATION ALL HIGHWAY INDIANA SYSTEM LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 113)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<50,000 LBS.		>50,000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	7859	0	6145	0	1714	0	4296	0	1734	0	2582
AVE. SPEED (MPH)	0	56.83	0	56.30	0	58.72	0	56.36	0	55.67	0	57.15
STANDARD DEVIATION	0	5.535	0	5.553	0	5.38	0	5.489	0	5.512	0	6.549
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	.1	0	.0
39 MPH	0	.3	0	.4	0	.1	0	.5	0	.5	0	.5
PERCENT 44 MPH	0	1.7	0	2.0	0	.4	0	2.6	0	3.1	0	2.3
OF 49 MPH	0	8.1	0	9.2	0	3.9	0	10.5	0	12.7	0	8.9
VEHICLES 54 MPH	0	29.9	0	33.7	0	16.3	0	33.3	0	38.8	0	29.3
TRAVELING 59 MPH	0	71.5	0	75.3	0	58.2	0	71.8	0	76.7	0	68.0
AT OR 64 MPH	0	93.7	0	95.1	0	88.7	0	94.3	0	95.3	0	92.9
LESS THAN 69 MPH	0	98.8	0	98.9	0	98.3	0	99.4	0	99.5	0	98.6
74 MPH	0	99.6	0	99.6	0	99.6	0	99.9	0	99.9	0	99.2
79 MPH	0	99.8	0	99.8	0	99.8	0	100.0	0	100.0	0	99.2
84 MPH	0	99.8	0	99.8	0	99.9	0	100.0	0	100.0	0	99.2
89 MPH	0	99.9	0	99.8	0	100.0	0	100.0	0	100.0	0	99.2

TABLE A-34 SPEED DATA EVERY SECOND VEHICLE

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 MILES SOUTH OF STATE ROAD 18

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY

THIS OBSERVATION
DATE 9-3-80, 9-2-80
TIME 11:00 AM - 12:50 PM, 9-3-80, NB
11:35 AM - 1:00 PM, 9-2-80, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.____)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	283	0	177	0	106	0	144	0	46	0	98
AVE. SPEED (MPH)	0	58.31		57.63	0	59.45		58.49	0	57.48	0	58.96
STANDARD DEVIATION	0	5.121	0	5.205	0	4.787	0	5.094	0	5.154	0	5.021
4 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.4	0	.6	0	0	0	.7	0		0	1.0
PERCENT 44 MPH	0	.4	0	.6	0	0	0	1.4	0	2.2	0	1.0
OF 49 MPH	0	2.8	0	4.5	0	0	0	2.8	0	2.2	0	3.1
VEHICLES 54 MPH	0	21.9	0	27.7	0	12.3	0	18.1	0	28.3	0	13.3
TRAVELING 59 MPH	0	62.2	0	66.7	0	54.7	0	56.9	0	63.0	0	54.1
AT OR 64 MPH	0	90.1	0	91.0	0	88.7	0	88.9	0	91.3	0	87.8
LESS THAN 69 MPH	0	97.9	0	98.3	0	97.2	0	98.6	0	100.0	0	98.0
74 MPH	0	99.6	0	100.0	0	99.1	0	100.0	0	100.0	0	100.0
79 MPH	0	99.6	0	100.0	0	99.1	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	141	0	91	0	50	0	7	0	20	0	50
AVERAGE SPEED	0	58.99	0	58.27	0	60.30	0	59.04	0	58.65	0	59.20
DIRECTION SB												
NUMBER OF VEHICLES	0	142	0	86	0	56	0	74	0	26	0	48
AVERAGE SPEED	0	57.63	0	56.94	0	58.70	0	57.96	0	56.58	0	58.71

TABLE A-35 SPEED DATA EVERY SECOND VEHICLE

STATION RI 17 HIGHWAY I-70 LOCATION 1.05 MILES EAST OF STATE ROAD 9

NO. OF LANES 4 TYPE OF SURFACE CONCRETE WEATHER PARTLY SUNNY, 9-8-80
hazy, 9-9-80

THIS OBSERVATION
DATE 9-8-80, 9-9-80
TIME 11:35 AM - 1:10 PM, 9-8-80, EB
11:10 AM - 12:30 PM, 9-9-80, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<50 LBS.		>50 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	239	0	112	0	127	0	180	0	46	0	134
AVE. SPEED (MPH)	0	57.87	0	57.91	0	57.83	0	58.16	0	56.67	0	58.67
STANDARD DEVIATION		4.244		4.162	0	4.332		4.931	0	5.574	0	4.603
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	1.3		.9		1.6		.6	0	2.2	0	0
49 MPH	0	3.3	0	3.6	0	3.1	0	4.4	0	10.9	0	2.2
54 MPH	0	15.1	0	15.2	0	15.0	0	20.0	0	30.4	0	16.4
59 MPH	0	68.2	0	70.5	0	66.1	0	64.4	0	69.6	0	62.7
64 MPH	0	93.7	0	93.8	0	93.7	0	89.4	0	93.5	0	88.1
69 MPH	0	99.6	0	100.0	0	99.2		98.9	0	100.0		98.5
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	114	0	60	0	54	0	94	0	27	0	67
AVERAGE SPEED		57.88		57.7	0	58.07	0	58.00	0	56.89	0	58.45
DIRECTION WB												
NUMBER OF VEHICLES		125		52	0	73	0	86	0	19	0	67
AVERAGE SPEED	0	57.86	0	58.15	0	57.64		58.34	0	56.37	0	58.95

TABLE A-36 SPEED DATA EVERY SECOND VEHICLE

STATION 4L-17 HIGHWAY U. S. 52 LOCATION 105' EAST OF COUNTY ROAD 475 WEST

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER OVERCAST, 7-28-80
SUNNY, 7-29-80

THIS OBSERVATION
DATE 7-28-80, 7-29-80
TIME 9:35 AM - 1:25 PM, 7-28-80, EB
9:20 AM - 1:00 PM, 7-29-80

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.____)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	302	0	278	0	24	0	120	0	64	0	56
AVE. SPEED (MPH)	0	56.06	0	56.24	0	56.29	0	56.06	0	55.99	0	57.16
STANDARD DEVIATION	0	5.679	0	5.762	0	4.704	0	6.073	0	6.428	0	5.490
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.3	0	.4	0	0	0	0	0	0	0	0
39 MPH	0	.7	0	.7	0	0	0	1.7	0	1.6	0	1.8
PERCENT 44 MPH	0	3.0	0	3.2	0	0	0	5.8	0	9.4	0	1.8
OF 49 MPH	0	10.9	0	11.5	0	4.2	0	13.3	0	18.8	0	7.1
VEHICLES 54 MPH	0	34.8	0	34.5	0	37.5	0	34.2	0	37.5	0	30.4
TRAVELING 59 MPH	0	76.5	0	75.5	0	87.5	0	70.0	0	73.4	0	66.1
AT OR 64 MPH	0	94.0	0	94.2	0	91.7	0	92.5	0	93.8	0	91.1
LESS THAN 69 MPH	0	98.7	0	98.6	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.7	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	147	0	131	0	16	0	63	0	34	0	29
AVERAGE SPEED	0	57.41	0	57.40	0	57.56	0	55.86	0	54.50	0	57.45
DIRECTION WB												
NUMBER OF VEHICLES	0	155	0	147	0	8	0	57	0	30	0	27
AVERAGE SPEED	0	54.77	0	54.82	0	53.75	0	56.28	0	55.77	0	56.85

TABLE A-37 SPEED DATA EVERY SECOND VEHICLE

STATION 4L22 HIGHWAY U.S. 31 LOCATION 1.65 MILES SOUTH OF STATE ROAD 26

NO OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER HAZY

THIS OBSERVATION
DATE 8-28-80
TIME 12:23 - 1:45 PM, NB
10:10 - 11:30 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.	>5000 LBS.
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	304	0	256	0	48	0	126	0	62	0	64
AVE. SPEED (MPH)	0	57.32	0	57.18	0	58.06	0	56.02	0	56.24	0	55.80
STANDARD DEVIATION		4.084	0	3.961	0	4.665		4.948	0	4.898	0	5.024
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	0			0	0		2.4	0	3.2	0	1.6
OF 49 MPH	0	2.6	0	2.7	0	2.1	0	10.3	0	8.1	0	12.5
VEHICLES 54 MPH	0	23.7	0	23.0	0	27.1	0	29.4	0	25.8	0	32.8
TRAVELING 59 MPH	0	67.8	0	71.1	0	50.0	0	81.0	0	79.0	0	82.8
AT OR 64 MPH	0	97.0	0	97.7	0	93.8	0	95.2	0	95.2	0	95.3
LESS THAN 69 MPH	0	100.0		100.0	0	100.0		100.0	0	100.0	0	100.0
74 MPH	0	100.0		100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	159	0	136	0	23	0	57	0	28	0	29
AVERAGE SPEED		57.91	0	57.67	0	59.35	0	56.82	0	56.64	0	57.00
DIRECTION SB												
NUMBER OF VEHICLES	0	145	0	120	0	25		69	0	34	0	35
AVERAGE SPEED	0	56.68	0	56.63	0	56.88	0	55.35	0	55.91	0	54.80

TABLE A-38 SPEED DATA EVERY SECOND VEHICLE

STATION 2L-54 HIGHWAY U.S. 231 LOCATION 1.1 MILES SOUTH OF STATE ROAD 234

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER PARTLY CLOUDY

THIS OBSERVATION
DATE 8-6-80
TIME 10:45 AM - 12:50 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	271	0	245	0	26	0	162	0	66	0	94
AVE. SPEED (MPH)	0	55.48	0	55.67	0	53.69	0	55.31	0	54.71	0	55.73
STANDARD DEVIATION	0	6.281	0	6.237	0	6.535	0	5.780	0	5.702	0	5.828
4 MPH	0		0		0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.4	0	.4	0	0	0	0	0	0	0	0
39 MPH	0	2.2	0	2.4	0	0	0	1.3	0	1.5	0	1.1
PERCENT 44 MPH	0	4.1	0	3.7	0	7.7	0	4.4	0	4.5	0	4.3
OF 49 MPH	0	14.4	0	13.5	0	23.1	0	13.8	0	12.1	0	14.9
VEHICLES 54 MPH	0	42.1	0	40.8	0	53.8	0	40.6	0	50.0	0	34.0
TRAVELING 59 MPH	0	77.9	0	77.1	0	84.6	0	75.6	0	77.3	0	74.5
AT OR 64 MPH	0	93.7	0	93.9	0	92.3	0	98.1	0	100.0	0	96.8
LESS THAN 69 MPH	0	98.9	0	98.8	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.6	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	99.6	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	99.6	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	145	0	139	0	6	0	71	0	25	0	46
AVERAGE SPEED	0	56.46	0	56.29	0	60.33	0	55.24	0	54.40	0	55.70
DIRECTION SB												
NUMBER OF VEHICLES	0	126	0	106	0	20	0	89	0	41	0	48
AVERAGE SPEED	0	54.34	0	54.84	0	51.70	0	55.37	0	54.90	0	55.77

TABLE A-39 SPEED DATA EVERY SECOND VEHICLE

STATION 21.08 HIGHWAY S.R. 25 LOCATION 10195 MILES NORTH OF DELPHI CITY LIMITS

NO. OF LANES 2 TYPE OF SURFACE BLACKTOP WEATHER CLOUDY

THIS OBSERVATION
DATE 9-4-80, 9-5-80
TIME 10:05 AM - 1:45 PM, 9-4-80
9:40 AM - 12:40 PM, 9-5-80

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE ____
TIME ____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	224	0	209	0	15	0	202	0	70	0	132
AVE. SPEED (MPH)	0	56.46	0	56.43	0	56.80	0	56.10	0	55.76	0	56.29
STANDARD DEVIATION	0	5.555	0	5.620	0	4.709	0	5.928	0	5.160	0	6.350
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	.4	0	.5	0	0	0	.5	0	0	0	.8
49 MPH	0	.9	0	1.0	0	0	0	1.0	0	0	0	1.5
54 MPH	0	2.2	0	2.4	0	0	0	3.5	0	1.4	0	4.5
59 MPH	0	8.0	0	7.7	0	13.3	0	9.9	0	8.6	0	10.6
64 MPH	0	31.3	0	31.6	0	26.7	0	38.6	0	42.9	0	36.4
69 MPH	0	75.9	0	76.1	0	73.3	0	72.8	0	78.6	0	69.7
74 MPH	0	91.1	0	90.4	0	100.0	0	93.1	0	95.7	0	91.7
79 MPH	0	99.6	0	99.5	0	100.0	0	98.5	0	100.0	0	97.7
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
94 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
99 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	121	0	110	0	11	0	93	0	31	0	62
AVERAGE SPEED	0	55.98	0	55.80	0	57.73	0	54.9	0	55.71	0	54.50
DIRECTION SB												
NUMBER OF VEHICLES	0	103	0	99	0	4	0	109	0	39	0	70
AVERAGE SPEED	0	57.02	0	57.13	0	54.25	0	57.13	0	55.79	0	57.87

TABLE A-40 SPEED DATA EVERY SECOND VEHICLE

STATION UI:06 HIGHWAY I-65 LOCATION JUST EAST OF WHITE RIVER

NO. OF LANES 6 TYPE OF SURFACE CONCRETE WEATHER SUNNY

THIS OBSERVATION
DATE 9-10-80
TIME 10:30 - 11:10 AM, EB
12:05 - 12:40 PM, WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE
TIME

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT	LAST	PRES-ENT
NUMBER OF VEHICLES	0	289	0	255	0	34	0	136	0	68	0	68
AVE. SPEED (MPH)	0	57.97	0	57.84	0	58.94	0	56.72	0	56.85	0	56.59
STANDARD DEVIATION	0	3.968	0	3.900	0	4.383	0	4.447	0	4.798	0	4.097
34 MPH	0		0		0		0		0		0	
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	.7	0	1.5	0	0
PERCENT 44 MPH	0	0	0	0	0	0	0	1.5	0	1.5	0	1.5
OF 49 MPH	0	1.7	0	1.6	0	2.9		4.4	0	5.9		2.9
VEHICLES 54 MPH	0	16.6		17.3	0	11.8	0	23.5	0	22.1	0	25.0
TRAVELING 59 MPH	0	65.4	0	67.1	0	52.9	0	77.2	0	77.9	0	76.5
AT OR 64 MPH	0	94.8	0	95.3	0	91.2	0	97.1	0	95.6	0	98.5
LESS THAN 69 MPH	0	99.3	0	99.2	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0		100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION EB												
NUMBER OF VEHICLES	0	124	0	115	0	9	0	86	0	43	0	43
AVERAGE SPEED	0	57.41	0	57.41	0	57.44	0	56.43	0	56.81	0	56.05
DIRECTION WB												
NUMBER OF VEHICLES	0	165	0	140	0	25	0	50	0	25	0	25
AVERAGE SPEED	0	58.38	0	58.19	0	59.48	0	57.22	0	56.92	0	57.52

TABLE A-41 SPEED DATA EVERY SECOND VEHICLE

STATION UI 03 HIGHWAY I-65 LOCATION 2.1 MILES NORTH OF STATE ROAD 14

NO. OF LANES 4 TYPE OF SURFACE BLACKTOP WEATHER SUNNY

THIS OBSERVATION
DATE 8-26-80
TIME 8:30 - 9:30 AM, NB
10:25 - 11:20 AM, SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
DATE
TIME

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	273	0	210	0	63	0	149	0	58	0	91
AVE. SPEED (MPH)	0	57.75		57.45		58.76	0	56.65	0	56.16	0	56.97
STANDARD DEVIATION	0	4.311	0	4.273	0	4.317	0	3.901	0	3.493	0	4.127
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0		0		0				0		0	
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT 44 MPH	0	.7	0	1.0	0	0	0	1.3	0	0	0	2.2
OF 49 MPH	0	2.6	0	3.3	0	0	0	2.7	0	0	0	4.4
VEHICLES 54 MPH	0	21.6	0	22.9	0	17.5		29.5	0	41.4	0	22.0
TRAVELING 59 MPH	0	68.1	0	71.0	0	58.7	0	78.5	0	81.0	0	76.9
AT OR 64 MPH	0	93.4	0	94.8	0	88.9	0	98.0	0	98.3	0	97.8
LESS THAN 69 MPH	0	99.6	0	100.0	0	98.4	0	100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB												
NUMBER OF VEHICLES	0	145	0	122	0	23	0	67	0	25	0	42
AVERAGE SPEED	0	58.17	0	57.82	0	60.00	0	56.66	0	57.24	0	56.31
DIRECTION SB												
NUMBER OF VEHICLES	0	128	0	88	0	40	0	82	0	33	0	49
AVERAGE SPEED	0	57.28	0	56.93	0	58.05	0	56.65	0	55.33	0	57.53

TABLE A-42 SPEED DATA EVERY SECOND VEHICLE

STATION RIELL HIGHWAY RURAL INTERSTATE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES		522		289		233		324	0	92	0	232
AVE SPEED (MPH)	0	58.11	0	57.74	0	58.57	0	58.31	0	57.08	0	58.79
STANDARD DEVIATION	0	4.740	0	4.822	0	4.607	0	4.999	0	5.354	0	4.776
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	.2	0	.3	0	0	0	.3	0	0	0	.4
44 MPH	0	.8	0	.7	0	.9	0	.9	0	2.2	0	.4
49 MPH	0	3.1	0	4.2	0	1.7	0	3.7	0	6.5	0	2.6
54 MPH	0	18.8	0	22.8	0	13.7	0	19.1	0	29.3	0	15.1
59 MPH	0	64.9	0	68.2	0	61.9	0	61.1	0	66.3	0	59.1
64 MPH	0	91.8	0	92.0	0	91.4	0	89.2	0	92.4	0	87.9
69 MPH		98.7	0	99.0	0	98.3	0	98.8	0	100.0	0	98.3
74 MPH	0	99.8	0	100.0	0	99.6	0	100.0	0	100.0	0	100.0
79 MPH	0	99.8	0	100.0	0	99.6	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-43 SPEED DATA EVERY SECOND VEHICLE

STATION 4LALL HIGHWAY 4-LANE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS						TRUCKS					
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	606	0	534	0	72	0	246	0	126	0	120
AVE. SPEED (MPH)	0	56.69	0	56.59	0	57.47	0	56.04	0	55.66	0	56.43
STANDARD DEVIATION	0	4.980	0	5.009	0	4.720	0	5.514	0	5.733	0	5.269
PERCENT OF VEHICLES TRAVELING OVER LESS THAN 24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0		0		0		0	0	0	0	0	0
34 MPH	0	.2	0	.2	0	0	0	.8	0	.8	0	.8
39 MPH	0	.3	0	.4	0	0	0	4.1	0	6.3	0	1.7
44 MPH	0	1.5	0	1.7	0	0	0	11.8	0	13.5	0	10.0
49 MPH	0	6.8	0	7.3	0	2.8	0	31.7	0	31.7	0	31.7
54 MPH	0	29.2	0	29.0	0	33.6	0	75.6	0	76.2	0	75.0
59 MPH	0	72.1	0	73.4	0	62.5	0	93.9	0	94.4	0	93.3
64 MPH	0	95.5	0	95.9	0	93.1	0	100.0	0	100.0	0	100.0
69 MPH	0	99.3	0	99.3	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.8	0	99.8	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-45 SPEED DATA EVERY SECOND VEHICLE

STATION 2LALL HIGHWAY 2-LANE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS								TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	495	0	454	0	41	0	362	0	136	0	226
AVE. SPEED (MPH)	0	55.92	0	56.12	0	54.83		55.75	0	55.25	0	56.06
STANDARD DEVIATION	0	5.977	0	5.967	0	6.062	0	5.868	0	5.387	0	6.131
4 MPH	0		0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.4	0	.4	0	0	0	.3	0	0	0	.4
39 MPH	0	1.6	0	1.8	0	0		1.1	0	.7	0	1.3
PERCENT 44 MPH	0	3.2	0	3.1	0	4.9	0	3.9	0	2.9	0	4.4
OF 49 MPH	0	11.5	0	10.8	0	19.5	0	11.6	0	10.3	0	12.4
VEHICLES 54 MPH	0	37.2	0	36.6	0	43.9	0	39.5	0	46.3	0	35.4
TRAVELING 59 MPH	0	77.0	0	76.7	0	80.5		74.0	0	77.9	0	71.7
AT OR 64 MPH	0	92.5	0	92.3	0	95.1	0	95.3	0	97.8	0	93.8
LESS THAN 69 MPH	0	99.2	0	99.1	0	100.0	0	99.2	0	100.0	0	98.7
74 MPH		99.8		99.8	0	100.0		100.0	0	100.0	0	100.0
79 MPH	0	99.8	0	99.8	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	99.8	0	99.8	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-45 SPEED DATA

STATION UIALL HIGHWAY URBAN INTERSTATE LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES		562		465		97		285	0	126	0	159
AVE. SPEED (MPH)	0	57.86		57.66	0	58.82	0	56.68	0	56.53	0	56.81
STANDARD DEVIATION	0	4.136	0	4.073	0	4.318	0	4.163	0	4.246	0	4.105
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	.4	0	.8	0	0
PERCENT 44 MPH		.4		.4		0		1.4	0	.8	0	1.9
OF 49 MPH		2.1	0	2.4	0	1.0	0	3.5	0	3.2	0	3.8
VEHICLES 54 MPH	0	19.0	0	19.8	0	15.5		26.7	0	31.0	0	23.3
TRAVELING 59 MPH	0	66.7	0	68.8	0	56.7	0	77.9	0	79.4	0	76.7
AT OR 64 MPH	0	94.1	0	95.1	0	89.7	0	97.5	0	96.8	0	98.1
LESS THAN 69 MPH		99.5		99.6		99.0		100.0	0	100.0	0	100.0
74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-46 SPEED DATA

STATION ALL HIGHWAY INDIANA SYSTEM LOCATION SEE INDIVIDUAL STATIONS

NO. OF LANES _____ TYPE OF SURFACE _____ WEATHER _____

THIS OBSERVATION
DATE JULY - SEPTEMBER 1980
TIME _____

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ____)
DATE APRIL - JUNE 1980
TIME _____

	PASSENGER CARS						TRUCKS			
	ALL		INDIANA		NON-INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT	LAST	PRESENT
NUMBER OF VEHICLES	0	2185		1742	0	443	0	1217	0	480	0	737
AVE. SPEED (MPH)		57.16		56.92	0	58.10	0	56.71	0	56.04	0	57.14
STANDARD DEVIATION	0	5.046	0	5.071	0	4.835	0	5.299	0	5.234	0	5.299
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	.1	0	.2	0	0	0	.1	0	0	0	.1
39 MPH	0	.5	0	.6	0	0		.7	0	.6	0	.7
PERCENT 44 MPH	0	1.4	0	1.5	0	.9	0	2.5	0	3.1	0	2.2
OF 49 MPH	0	5.8	0	6.4	0	3.4	0	7.6	0	8.5	0	7.1
VEHICLES 54 MPH	0	25.9	0	27.5	0	19.6	0	29.5	0	35.2	0	25.8
TRAVELING 59 MPH	0	70.1	0	72.2	0	62.1	0	71.8	0	75.6	0	69.3
AT OR 64 MPH	0	93.6	0	94.1	0	91.6		93.9	0	95.6	0	92.8
LESS THAN 69 MPH	0	99.2	0	99.3	0	98.9	0	99.4	0	100.0	0	99.1
74 MPH	0	99.9		99.9	0	99.8	0	100.0	0	100.0	0	100.0
79 MPH	0	99.9	0	99.9	0	99.8	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	99.9	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH		100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A-47

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-6 LOCATION I-65 - 7.5 MILES NORTH OF SR 160

NUMBER OF SESSIONS 1 DATES 8-18-80 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 58.9 STANDARD DEVIATION 4.2

MEDIAN SPEED (MPH) 58.3 85TH PERCENTILE SPEED (MPH) 62.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 81. 60 MPH 32. 65 MPH 7.

TABLE A-48

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-21 LOCATION I-69 - 1.6 MILES SOUTH OF SR 18

NUMBER OF SESSIONS 1 DATES 9-2-80 9-3-80 VEHICLES MEASURED 422

AVERAGE SPEED (MPH) 59.1 STANDARD DEVIATION 4.8

MEDIAN SPEED (MPH) 58.5 85TH PERCENTILE SPEED (MPH) 62.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 82. 60 MPH 37. 65 MPH 7.

TABLE A-49

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-12 LOCATION I-74 - 0.1 MILES WEST OF 109 MILE MARKER

NUMBER OF SESSIONS 1 DATES 7-31-80 VEHICLES MEASURED 430

AVERAGE SPEED (MPH) 58.4 STANDARD DEVIATION 4.3

MEDIAN SPEED (MPH) 57.9 85TH PERCENTILE SPEED (MPH) 62.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 76. 60 MPH 30. 65 MPH 4.

TABLE A-50

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-34 LOCATION I-65 - 2 MILES SOUTH OF SR 39

NUMBER OF SESSIONS 1 DATES 9-10-80 VEHICLES MEASURED 420

AVERAGE SPEED (MPH) 58.1 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 58.0 85TH PERCENTILE SPEED (MPH) 61.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 74. 60 MPH 29. 65 MPH 5.

TABLE A-51

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-22 LOCATION I-64 - 4.9 MILES EAST OF SR 57

NUMBER OF SESSIONS 1 DATES 8-13-80 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 58.7 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 58.0 85TH PERCENTILE SPEED (MPH) 62.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 78. 60 MPH 32. 65 MPH 6.

TABLE A-52

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-5 LOCATION I-64 - 8.55 MILES WEST OF SR 150

NUMBER OF SESSIONS 1 DATES 8-20-80 VEHICLES MEASURED 429

AVERAGE SPEED (MPH) 58.7 STANDARD DEVIATION 4.9

MEDIAN SPEED (MPH) 58.1 85TH PERCENTILE SPEED (MPH) 63.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 76. 60 MPH 34. 65 MPH 8.

TABLE A-53

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-17 LOCATION I-70 - 1.05 MILES EAST OF SR 9

NUMBER OF SESSIONS 1 DATES 9-9-80 9-8-80 VEHICLES MEASURED 424

AVERAGE SPEED (MPH) 58.3 STANDARD DEVIATION 4.4

MEDIAN SPEED (MPH) 57.8 85TH PERCENTILE SPEED (MPH) 62.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 74. 60 MPH 30. 65 MPH 4.

TABLE A-54

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-29 LOCATION I-80 & 90 - 7.15 MILES WEST OF US 421

NUMBER OF SESSIONS 1 DATES 8-5-80 VEHICLES MEASURED 434

AVERAGE SPEED (MPH) 60.0 STANDARD DEVIATION 4.5

MEDIAN SPEED (MPH) 59.5 85TH PERCENTILE SPEED (MPH) 64.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 84. 60 MPH 46. 65 MPH 9.

TABLE A-55

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-17 LOCATION US 52 - 150' EAST OF CO RD 475 WEST

NUMBER OF SESSIONS 1 DATES 7-28-80 7-29-80 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 55.9 STANDARD DEVIATION 5.6

MEDIAN SPEED (MPH) 55.6 85TH PERCENTILE SPEED (MPH) 60.8

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 56. 60 MPH 19. 65 MPH 3.

TABLE A-56

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-32 LOCATION US 30 - 2.9 MILES WEST OF WANATAH CITY LIMIT SIGN

NUMBER OF SESSIONS 1 DATES 8-1-80 VEHICLES MEASURED 431

AVERAGE SPEED (MPH) 56.9 STANDARD DEVIATION 4.5

MEDIAN SPEED (MPH) 56.7 85TH PERCENTILE SPEED (MPH) 60.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 66. 60 MPH 20. 65 MPH 2.

TABLE A-57

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-29 LOCATION US 41 - 1.1 MILES NORTH OF SR 2

NUMBER OF SESSIONS 1 DATES 8-15-80 VEHICLES MEASURED 429

AVERAGE SPEED (MPH) 56.8 STANDARD DEVIATION 4.8

MEDIAN SPEED (MPH) 56.6 85TH PERCENTILE SPEED (MPH) 61.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 62. 60 MPH 22. 65 MPH 3.

TABLE A-58

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-21 LOCATION US 31 + 1.1 MILES SOUTH OF SR 38

NUMBER OF SESSIONS 1 DATES 8-7-80 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 54.6 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 54.2 85TH PERCENTILE SPEED (MPH) 59.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 42. 60 MPH 11. 65 MPH 2.

TABLE A-59

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-1 LOCATION US 41 - 1.2 MILES NORTH OF SR 168

NUMBER OF SESSIONS 1 DATES 8-12-80 VEHICLES MEASURED 419

AVERAGE SPEED (MPH) 56.5 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 56.0 85TH PERCENTILE SPEED (MPH) 60.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 64. 60 MPH 15. 65 MPH 2.

TABLE A-60

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-6 LOCATION US 40 - 1.75 MILES WEST OF BRAZIL CITY LIMIT

NUMBER OF SESSIONS 1 DATES 8-11-80 VEHICLES MEASURED 525

AVERAGE SPEED (MPH) 54.4 STANDARD DEVIATION 5.5

MEDIAN SPEED (MPH) 55.1 85TH PERCENTILE SPEED (MPH) 58.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 52. 60 MPH 10. 65 MPH 2.

TABLE A-61

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY 4 MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-22 LOCATION US 31 - 1.65 MILES SOUTH OF SR 26

NUMBER OF SESSIONS 1 DATES 8-28-80 VEHICLES MEASURED 448

AVERAGE SPEED (MPH) 55.7 STANDARD DEVIATION 8.0

MEDIAN SPEED (MPH) 56.7 85TH PERCENTILE SPEED (MPH) 61.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 67. 60 MPH 25. 65 MPH 8.

TABLE A-62

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-26 LOCATION SR 9 - 1.4 MILES NORTH OF SR 124

NUMBER OF SESSIONS 1 DATES 8-25-80 VEHICLES MEASURED 418

AVERAGE SPEED (MPH) 56.7 STANDARD DEVIATION 5.6

MEDIAN SPEED (MPH) 56.2 85TH PERCENTILE SPEED (MPH) 61.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 63. 60 MPH 24. 65 MPH 5.

TABLE A-63

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-18 LOCATION US 35 - 2.5 MILES EAST OF I-69

NUMBER OF SESSIONS 1 DATES 8-22-80 VEHICLES MEASURED 430

AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION 4.9

MEDIAN SPEED (MPH) 55.5 85TH PERCENTILE SPEED (MPH) 60.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 56. 60 MPH 15. 65 MPH 4.

TABLE A-64

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-54 LOCATION US 231 - 1.1 MILES SOUTH OF SR 234

NUMBER OF SESSIONS 1 DATES 8-6-80 VEHICLES MEASURED 425

AVERAGE SPEED (MPH) 56.5 STANDARD DEVIATION 5.8

MEDIAN SPEED (MPH) 56.2 85TH PERCENTILE SPEED (MPH) 61.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 59. 60 MPH 21. 65 MPH 5.

TABLE A-65

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-79 LOCATION SR 25 - 0.7 MILES SOUTH OF AMERICUS

NUMBER OF SESSIONS 1 DATES 7-31-80 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 53.3 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 52.6 85TH PERCENTILE SPEED (MPH) 57.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 30. 60 MPH 7. 65 MPH 2.

TABLE A-66

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-91 LOCATION SR 43 - 2 MILES SOUTH OF CHALMERS

NUMBER OF SESSIONS 1 DATES 8-8-80 VEHICLES MEASURED 435

AVERAGE SPEED (MPH) 54.9 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 54.6 85TH PERCENTILE SPEED (MPH) 59.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 45. 60 MPH 12. 65 MPH 3.

TABLE A-67

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-5 LOCATION SR 3 - 1.4 MILES NORTH OF BLACKFORD - DELAWARE CO LINE

NUMBER OF SESSIONS 1 DATES 8-4-80 VEHICLES MEASURED 450

AVERAGE SPEED (MPH) 53.7 STANDARD DEVIATION 5.2

MEDIAN SPEED (MPH) 53.1 85TH PERCENTILE SPEED (MPH) 58.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 33. 60 MPH 8. 65 MPH 2.

TABLE A-68

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-8 LOCATION SR 25 - 10.95 MILES NORTH OF DELPHI CITY LIMITS

NUMBER OF SESSIONS 1 DATES 9-4-80 9-5-80 VEHICLES MEASURED 431

AVERAGE SPEED (MPH) 57.1 STANDARD DEVIATION 6.0

MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 62.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 63. 60 MPH 26. 65 MPH 8.

TABLE A-69

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-72 LOCATION US 31 - 0.85 MILES NORTH OF SCOTTSBURG CITY LIMITS

NUMBER OF SESSIONS 1 DATES 8-19-80 VEHICLES MEASURED 472

AVERAGE SPEED (MPH) 52.6 STANDARD DEVIATION 7.1

MEDIAN SPEED (MPH) 51.4 85TH PERCENTILE SPEED (MPH) 60.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 32. 60 MPH 16. 65 MPH 3.

TABLE A-70

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-88 LOCATION US 60 - 1.6 MILES WEST OF SR 56

NUMBER OF SESSIONS 1 DATES 8-21-80 VEHICLES MEASURED 437

AVERAGE SPEED (MPH) 54.6 STANDARD DEVIATION 6.[illegible]

MEDIAN SPEED (MPH) 54.6 85TH PERCENTILE SPEED (MPH) 59.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 47. 60 MPH 13. 65 MPH 4.

TABLE A-71

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-06 LOCATION I-65 - JUST EAST OF WHITE RIVER

NUMBER OF SESSIONS 1 DATES 9-10-80 VEHICLES MEASURED 436

AVERAGE SPEED (MPH) 57.6 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 61.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 71. 60 MPH 25. 65 MPH 4.

TABLE A-72

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-01 LOCATION I-80 - 1st BRIDGE EAST OF BURR STREET INTERCHANGE

NUMBER OF SESSIONS 1 DATES 7-30-80 VEHICLES MEASURED 428

AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION 4.4

MEDIAN SPEED (MPH) 55.7 85TH PERCENTILE SPEED (MPH) 59.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 57. 60 MPH 12. 65 MPH 1.

TABLE A-73

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-23 LOCATION I-69 - 2.1 MILES NORTH OF SR 14

NUMBER OF SESSIONS 1 DATES 8-26-80 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 57.5 STANDARD DEVIATION 4.6

MEDIAN SPEED (MPH) 57.3 85TH PERCENTILE SPEED (MPH) 60.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 71. 60 MPH 22. 65 MPH 4.

TABLE A-74

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-08 LOCATION I-265 - 1.34 MILES NORTH OF I-64

NUMBER OF SESSIONS 1 DATES 8-20-80 VEHICLES MEASURED 433

AVERAGE SPEED (MPH) 57.6 STANDARD DEVIATION 4.9

MEDIAN SPEED (MPH) 57.0 85TH PERCENTILE SPEED (MPH) 61.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 65. 60 MPH 26. 65 MPH 6.

TABLE A-75

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-21 LOCATION I-69 - 1.6 MILES SOUTH OF SR 18

NUMBER OF SESSIONS 1 DATES 9-2-80 9-3-80 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 58.4 STANDARD DEVIATION 5.1

MEDIAN SPEED (MPH) 57.7 85TH PERCENTILE SPEED (MPH) 63.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 72. 60 MPH 31. 65 MPH 7.

TABLE A-76

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-17 LOCATION I-70 - 1.05 MILES EAST OF SR 9

NUMBER OF SESSIONS 1 DATES 9-8-80 9-9-80 VEHICLES MEASURED 419

AVERAGE SPEED (MPH) 58.0 STANDARD DEVIATION 4.5

MEDIAN SPEED (MPH) 57.5 85TH PERCENTILE SPEED (MPH) 61.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 75. 60 MPH 26. 65 MPH 5.

TABLE A-77

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-17 LOCATION US 52 - 150' EAST OF CO RD 475 WEST

NUMBER OF SESSIONS 1 DATES 7-28-80 7-29-80 VEHICLES MEASURED 422

AVERAGE SPEED (MPH) 56.1 STANDARD DEVIATION 5.8

MEDIAN SPEED (MPH) 55.7 85TH PERCENTILE SPEED (MPH) 61.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 55. 60 MPH 23. 65 MPH 4.

TABLE A-78

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 4L-22 LOCATION US 31 - 1.65 MILES SOUTH OF SR 26

NUMBER OF SESSIONS 1 DATES 8-28-80 VEHICLES MEASURED 432

AVERAGE SPEED (MPH) 56.9 STANDARD DEVIATION 4.4

MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 60.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 66. 60 MPH 21. 65 MPH 2.

TABLE A-79

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-54 LOCATION US 231 - 1.1 MILES SOUTH OF SR 234

NUMBER OF SESSIONS 1 DATES 8-6-80 VEHICLES MEASURED 431

AVERAGE SPEED (MPH) 55.4 STANDARD DEVIATION 6.1

MEDIAN SPEED (MPH) 55.0 85TH PERCENTILE SPEED (MPH) 60.4

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 50. 60 MPH 16. 65 MPH 3.

TABLE A-80

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY TWO-LANE, RURAL

STATION NUMBER 2L-38 LOCATION SR 25 - 10.95 MILES NORTH OF DELPHI CITY LIMITS

NUMBER OF SESSIONS 1 DATES 9-5-80 9-4-80 VEHICLES MEASURED 426

AVERAGE SPEED (MPH) 56.3 STANDARD DEVIATION 5.7

MEDIAN SPEED (MPH) 55.7 85TH PERCENTILE SPEED (MPH) 61.9

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 56. 60 MPH 20. 65 MPH 4.

TABLE A-81

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-06 LOCATION I-65 - JUST EAST OF WHITE RIVER

NUMBER OF SESSIONS 1 DATES 9-10-80 VEHICLES MEASURED 425

AVERAGE SPEED (MPH) 57.6 STANDARD DEVIATION 4.2

MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 61.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 72. 60 MPH 22. 65 MPH 3.

TABLE A-82

SPEED MONITORING STATION SUMMARY EVERY SECOND VEHICLE

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-03 LOCATION I-69 - 2.1 MILES NORTH OF SR 14

NUMBER OF SESSIONS 1 DATES 8-26-80 VEHICLES MEASURED 422

AVERAGE SPEED (MPH) 57.4 STANDARD DEVIATION 4.2

MEDIAN SPEED (MPH) 56.9 85TH PERCENTILE SPEED (MPH) 60.8

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH 68. 60 MPH 20. 65 MPH 3.

COVER DESIGN BY ALDO GIORGINI